

Work Order ID 128049

December-23-14 8:55:20 AM

FAI

128049

Page 1

Item ID: D5116-041 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*

Item Name: Wiring Harness

Start Date: 12/23/14 Start Qty: 1.00 *1*

Cust Item ID:

Required Date: 1/30/15 Req'd Qty: 1.00 *1*

Customer:

Reference:

Run Start *NR1*

Approvals: Process Plan: W Date: Tooling: Date:

Stop *NR2*

QC: Date: SPC (Y/N): Date:

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
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D5116	A
-------	---

100

0.00

100

Purchasing

Memo

0.00

Purchasing

ISSUE PO: 26888
 Supplier: Positronic
 Manufacture D5116-041 as per dwg
 C OF C IS REQUIRED

CZ 14/12/23

Pto →

110

Receive & Inspect for Damage & Mat'l Certs

0.00

110

Packaging

Memo

0.00

Packaging

DAS
95
9-89
FEB 27 2015

120

QC5- Inspect part completeness to step on W/O

0.00

120

QC

Memo

0.00

Quality Control

① 1503-09

DAS
9
9-89

DQA:

Date: 15/06/38



QA Closed:

Date: 15/06/26

WORK ORDER NON-CONFORMANCE / UPDATE

Work Order update only ☐

Work Order: <u>128049</u> Part No. <u>D5116-041</u> NCR No.		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☒ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table border="0"> <tr> <td>Skid-tube ☐</td> <td>Cross tube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☒</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☒																																															
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Date: 2015/03/11		Step #: 100		QTY Effective: 1		MRB (QSI042) Approval																																																																	
Description Work Order Deviation				Disposition		Completed By																																																																	
SEE ATTACHED: Small deviation about wire clamp insulation clamp Tabs do not provide support @ least 180°				Accurate PER ATTACHED EMAIL From: N.S.		5/05/11 Lead hand / Supervisor Approval Verification N/A QC / QA Coordinator Approval 8/15/03/11																																																																	
Root Cause <table border="0"> <tr> <td>Environment ☐</td> <td>No Re-verification ☐</td> </tr> <tr> <td>Design ☒</td> <td>Operator ☐</td> </tr> <tr> <td>Doc/Data ☐</td> <td>Offset/Setup ☐</td> </tr> <tr> <td>Equip/Tooling ☐</td> <td>Supplier ☐</td> </tr> <tr> <td>Handling/Pre ☐</td> <td>Training ☐</td> </tr> <tr> <td>Material ☐</td> <td>Use for Testing ☐</td> </tr> <tr> <td>Internal Transport ☐</td> <td>Poor Information ☐</td> </tr> <tr> <td>Tribal Knowledge ☐</td> <td>Rushing ☐</td> </tr> <tr> <td>LOA ☐</td> <td>Product Improvement ☐</td> </tr> <tr> <td>Substation ☐</td> <td>Process Improvement ☐</td> </tr> <tr> <td>Past Expiry Date ☐</td> <td>Manufacturing Process ☐</td> </tr> <tr> <td>Misidentified ☐</td> <td>Past Due ☐</td> </tr> </table>				Environment ☐	No Re-verification ☐	Design ☒	Operator ☐	Doc/Data ☐	Offset/Setup ☐	Equip/Tooling ☐	Supplier ☐	Handling/Pre ☐	Training ☐	Material ☐	Use for Testing ☐	Internal Transport ☐	Poor Information ☐	Tribal Knowledge ☐	Rushing ☐	LOA ☐	Product Improvement ☐	Substation ☐	Process Improvement ☐	Past Expiry Date ☐	Manufacturing Process ☐	Misidentified ☐	Past Due ☐	FAULT CATEGORY <table border="0"> <tr> <td>Pressure/Forced ☐</td> <td>Temperature/Cure ☐</td> <td>Power Loss/Surge ☐</td> <td>Positioned Wrong ☐</td> </tr> <tr> <td>Bending ☐</td> <td>Set-up ☐</td> <td>Folio/Program ☐</td> <td>Outside Dimensions ☐</td> </tr> <tr> <td>Centre Not Concentric ☐</td> <td>BOM/Route ☐</td> <td>Grain ☐</td> <td>Over/Under tolerance ☐</td> </tr> <tr> <td>Cracks ☐</td> <td>Broken/Damage/Defect ☐</td> <td>Weld ☐</td> <td>Part Incorrect ☐</td> </tr> <tr> <td>Crimp/Kink/Ripple/Wave ☐</td> <td>Inspection Incomplete/Unqualified ☐</td> <td>Wrong Stock Pulled ☐</td> <td>Part Lost/Missing ☐</td> </tr> <tr> <td>Cuffs ☐</td> <td>Contamination ☐</td> <td>Out of Sequence ☐</td> <td>Part Moved ☐</td> </tr> <tr> <td>Crushing ☐</td> <td>Countersink ☐</td> <td>Off-set ☐</td> <td>Drawing ☐</td> </tr> <tr> <td>Heat Treat ☐</td> <td>Cut Too Short ☐</td> <td>Mislabeled ☐</td> <td>Finish ☐</td> </tr> <tr> <td>Wave/Twist in Tube ☐</td> <td>Instructions Incomplete/Unclear ☐</td> <td>Fit/Function ☐</td> <td>Misread ☐</td> </tr> <tr> <td>Marks/Chatter ☐</td> <td>Drill Holes ☐</td> <td>Misaligned/off center ☐</td> <td>Turning Sequence ☐</td> </tr> </table>				Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
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☒ OTHER: Supplier Deviation to Product.																																																																							



POSITRONIC INDUSTRIES, INC.

423 N. Campbell Ave. • P.O. BOX 8247

Springfield, MO 65801 USA

Telephone 417-866-2322 • FAX 417-866-4115 • Toll Free 800-641-4054

E-mail: info@connectpositronic.com

www.connectpositronic.com

CUSTOMER SPECIFICATION REVIEW

Customer Name: DART	Date: 2/24/15
Customer Part Number: D5116-041	Revision: A
CC Part Number: CC4084-V01	Revision: NC

Comments: (The comments below depict the differences between your specification and the Positronic products. Any difference with an * is negotiable, i.e. Positronic Industries could possibly supply with an additional lead time.)

The insulation diameter range of TE contact 60619-1 & 60620-1 is .100 -.130 and the insulation of wire M22759/41-20 and M22759/32-20 is quite out of that range. Per IPC-620 this is a defect that insulation crimp tabs do not provide support at least 180° around the insulation.

Change TE contact from 60619-1 to 60617-1 and from 60620-1 to 60618-1 on wires that required 20 awg wire only. The insulation diameter range of suggested contacts p/n is .060 -.100.

The usage of IPC tolerances instead of Note 3) Tolerances: per Dart QSI 018.

Print OK to build to ☐ yes ☒ no ☒ Deviations accepted

Thank you for the opportunity to review your specification. If any of the comments are unacceptable please notify us. If the comments are acceptable please sign below as acceptance to the differences and reply a copy to us.

Harvey Siemens

Customer

Authorized Signature

15.02.25

Date

Eric Downing

From: Chantal Lavoie
Sent: Wednesday, March 11, 2015 8:57 AM
To: Eric Downing
Subject: FW: Wire Harness D5116-041 / P.O. PO26888
Attachments: DART deviation D5116-041 rev A.pdf

Hi Eric,
Please see attached for deviation.
Thanks
Chantal

From: Harvey Siemens
Sent: Wednesday, February 25, 2015 9:19 AM
To: Barbara Ortiz; Linda Lacelle
Cc: Mario Poulin; Chantal Lavoie
Subject: RE: Wire Harness D5116-041 / P.O. PO26888

Here you go Barbara ☺

Regards,
Harvey Siemens
Director of Engineering – Calgary/Technical Support

DART AEROSPACE
T 1 403 717-0328 > 402
M 1 403 512-4099
www.dartaerospace.com



From: Barbara Ortiz [<mailto:BOrtiz@connectpositronic.com>]
Sent: February-25-15 7:16 AM
To: Harvey Siemens; Linda Lacelle
Cc: Mario Poulin; Chantal Lavoie
Subject: RE: Wire Harness D5116-041 / P.O. PO26888

Harvey,

The X should be at "NO" since the print needs update to conforms to this deviation.

Could you please change it to right place?

Thanks,
Barbara Ortiz Pabón
Assemblies Application Engineer
Positronic | USA
Tel: +1 787 841 0920 (x2253)

bortiz@connectpositronic.com

From: Harvey Siemens [<mailto:hsiemens@dartaero.com>]
Sent: Wednesday, February 25, 2015 10:10 AM
To: Barbara Ortiz; Linda Lacelle
Cc: Mario Poulin; Chantal Lavoie
Subject: RE: Wire Harness D5116-041 / P.O. PO26888

Barbara,

Please find attached the signed deviation document. I hope I put the "Xs" in the right place. Let me know if they should be different.

Regards,
Harvey Siemens
Director of Engineering – Calgary/Technical Support

DART AEROSPACE
T 1 403 717-0328 > 402
M 1 403 512-4099
www.dartaerospace.com



From: Barbara Ortiz [<mailto:BOrtiz@connectpositronic.com>]
Sent: February-25-15 6:49 AM
To: Harvey Siemens; Linda Lacelle
Cc: Mario Poulin; Chantal Lavoie
Subject: RE: Wire Harness D5116-041 / P.O. PO26888

Hi,

Please find attached the deviation document request to be sign off.

Thanks,
Barbara Ortiz Pabón
Assemblies Application Engineer
Positronic | USA
Tel: +1 787 841 0920 (x2253)
bortiz@connectpositronic.com

From: Harvey Siemens [<mailto:hsiemens@dartaero.com>]
Sent: Monday, February 23, 2015 11:32 AM
To: Barbara Ortiz; Linda Lacelle
Cc: Mario Poulin; Chantal Lavoie
Subject: RE: Wire Harness D5116-041 / P.O. PO26888

Not a problem with their tolerances

Regards,

HS

From: Barbara Ortiz [<mailto:BOrtiz@connectpositronic.com>]

Sent: February-23-15 7:33 AM

To: Linda Lacelle

Cc: Mario Poulin; Chantal Lavoie; Harvey Siemens

Subject: RE: Wire Harness D5116-041 / P.O. PO26888

Hi Linda,

I have a request regarding the cable length tolerance since the drawing does not specify any tolerance and QSI018-03B has tolerance for dimension X.X +/- 0.100" that is tight for dimensions in the drawing. I would like to request your approval to use IPC-620 recommended tolerance. See document attached. Please advise if you agree.

Thanks,

Barbara Ortiz Pabón

Assemblies Application Engineer

Positronic | USA

Tel: +1 787 841 0920 (x2253)

bortiz@connectpositronic.com

From: Linda Lacelle [<mailto:llacelle@dartaero.com>]

Sent: Friday, February 20, 2015 1:35 PM

To: Barbara Ortiz

Cc: Mario Poulin; Chantal Lavoie; Harvey Siemens

Subject: RE: Wire Harness D5116-041 / P.O. PO26888

Hi Barbara,

Pls proceed as requested below.

Thx

Linda

From: Harvey Siemens

Sent: February-20-15 12:20 PM

To: Linda Lacelle

Cc: Mario Poulin; Chantal Lavoie

Subject: RE: Wire Harness D5116-041 / P.O. PO26888

Linda,

This makes complete sense to me.

Regards,

HS

From: Linda Lacelle
Sent: February-20-15 9:41 AM
To: Harvey Siemens
Cc: Mario Poulin; Chantal Lavoie
Subject: RE: Wire Harness D5116-041 / P.O. PO26888

Harvey??

From: Mario Poulin
Sent: February-20-15 11:39 AM
To: Chantal Lavoie; Linda Lacelle
Subject: FW: Wire Harness D5116-041 / P.O. PO26888

FYI,

Can you help on this,

Mario,

From: Barbara Ortiz [<mailto:BOrtiz@connectpositronic.com>]
Sent: Friday, February 20, 2015 11:32 AM
To: Mario Poulin
Subject: Wire Harness D5116-041 / P.O. PO26888

Mario,

We are in the process of building the first article of Dart assembly p/n D5116-041. I would like to suggest a material change that is been used in other Dart assemblies like D4728-041 & D4897-045, this is to improve the quality of this product.

The insulation diameter range of TE contact 60619-1 & 60620-1 is .100 -.130 and the insulation of wire M22759/41-20 and M22759/32-20 is quite out of that range. Per IPC-620 this is a defect that insulation crimp tabs do not provide support at least 180° around the insulation. Suggestion: Change TE contact from 60619-1 to 60617-1 and from 60620-1 to 60618-1. The insulation diameter range of suggested contacts p/n is .060 -.100.

Please advise if this suggestion is accepted. This FAI is on schedule to be shipped by 2/26/15. This can be manage with a drawing change or a customer deviation. Please see drawing details attached.

Thanks,

Barbara Ortiz Pabón
Assemblies Application Engineer
Positronic | USA
Tel: +1 787 841 0920 (x2253)
bortiz@connectpositronic.com

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Work Order ID 128049

December-23-14 8:55:20 AM

128049

Page 2

Item ID: D5116-041 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Wiring Harness
Start Date: 12/23/14 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 1/30/15 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location: <i>Stair</i>	0.00							
130									
Packaging	Memo	0.00							
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

1

MAR 18 2015

DAS 8 2-89

15/3/19

MF 15-3-19

Picklist Print

December-23-14 8:55:20 AM

Page 1

Work Order ID: 128049

128049

Parent Item: D5116-041

D5116-041

Parent Item Name: Wiring Harness

Start Date: 12/23/14

Required Date: 1/30/15

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 14.11.17 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D5116-041P		Purchased	No				Each	0.0000		1			
D5116-041P									**				
Wiring Harness													

M 1/31/075 80

10128019

D5116-041 WIRE HARNESS

QTY - 041	PART NUMBER	DESCRIPTION	WIRE CODE	GAUGE	TERMINAL 1	TERMINAL 2	LENGTH (IN)	NOTES
X	D5116-041	WIRE HARNESS	N/A	N/A	N/A	N/A	N/A	N/A
1	D5116-1	WIRE M22759/41-14-9	M001A14	14	NONE	M39029/92-535	48	
1	D5116-3	WIRE M22759/41-14-9	M001B14	14	M39029/92-535	60619-1	48	
1	D5116-5	WIRE M22759/41-14-9	M001C14	14	60620-1	32448	48	WIRE/CONNECTOR SUPPLIED WITH HOOK
1	D5116-7	WIRE M22759/41-14-9	M002A14	14	60620-1	32448	48	WIRE/CONNECTOR SUPPLIED WITH HOOK
1	D5116-9	WIRE M22759/41-14-9	M002B14N	14	60619-1	NONE	72	
1	D5116-11	WIRE M22759/41-20-9	M003A20	20	NONE	M39029/92-533	48	
1	D5116-13	WIRE M22759/41-20-9	M003B20	20	M39029/92-533	60619-1	12	
1	D5116-15	WIRE M22759/32-20-9	M003C20	20	60620-1	NONE	75	
1	D5116-17	WIRE M22759/32-20-9	M004A20	20	60620-1	NONE	75	
1	D5116-19	WIRE M22759/41-20-9	M004B20N	20	60619-1	NONE	30	
1	D5116-21	WIRE M22759/41-20-9	NO CODE	20	36152	640903-1	7	JUMPER WIRE BETWEEN 28 VDC BUS AND D5096-1 FUSE HOLDER
1	XPF-1/8	EXPANDABLE SLEEVE	N/A	N/A	N/A	N/A	44	TO BE INSTALLED OVER WIRES M001C14 AND M002A14
2	1-480318	CONNECTOR	N/A	N/A	N/A	N/A	N/A	SEE NOTE 8 AND 9
2	1-480319	CONNECTOR	N/A	N/A	N/A	N/A	N/A	SEE NOTE 8 AND 9
1	31890	RED # 8 RING TERMINAL	N/A	N/A	N/A	N/A	N/A	SEE NOTE 8 AND 9
2	320562	BLUE BUTT SPLICE	N/A	N/A	N/A	N/A	N/A	SEE NOTE 8 AND 9
1	320565	BLUE # 8 RING TERMINAL	N/A	N/A	N/A	N/A	N/A	SEE NOTE 8 AND 9
1	320619	BLUE # 6 RING TERMINAL	N/A	N/A	N/A	N/A	N/A	SEE NOTE 8 AND 9
1	640903-1	1/4" BLADE CONNECTOR	N/A	N/A	N/A	N/A	N/A	SEE NOTE 8 AND 9

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: PER QSI 044 6.7
- 7) WEIGHT: 1.0 lbs
- 8) PACKAGE TERMINALS/CONNECTORS IN LABELLED BAGS AS PART OF THE HARNESS ASSEMBLY
- 9) TERMINALS ARE TO BE CRIMPED BY THE CUSTOMER DURING HARNESS INSTALLATION
- 10) INSTALL AND SHRINK A 2" LENGTH OF 1/4" HEAT-SHRINK TUBING OVER BOTH ENDS OF THE EXPANDABLE SLEEVE TO PREVENT THE EXPANDABLE SLEEVE FROM FRAYING

RELEASED
2014-11-06

A	NEW ISSUE	ML	14.05.09
REV.	DESCRIPTION	BY	DATE
DESIGN	ML	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	ML		
CHECKED	AJS	DRAWING NO.	REV. A
MFG. APPR.	DD	D5116	SHEET 1 OF 1
APPROVED	MP	TITLE	SCALE
DE APPR.	DS	WIRE HARNESS	NTS
DATE	14.05.09	COPYRIGHT © 2014 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS UNDERSTANDING IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR REPRODUCED TO ANY OTHER PERSON OR ENTITY WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	

APPROVED

Packing Slip

Cage Code: 54YW5

Page: 1 of 2

Ship To:

DART AERO
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Phone: 613-632-5200
Fax: 613-632-1053
DBATES@DARTAERO.COM

Sold To:

DART AERO
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Phone: 613-632-5200
Fax: 613-632-1053
DBATES@DARTAERO.COM

Ship Date: 2/26/2015
Ship Via: FedEx Intl Priority

F.O.B.: FOB SHIPPING POINT
Carrier: Federal Express

CustID: 22558

Waybill #: 780269950910

Pack Slip:
46176



Salesperson
Leo Giannakopoulos

Terms: Net 30 Days

P.O. # PO26888



S.O. # 24947



SHIPPING TO CANADA-CANADA CUSTOMS/NAFTA DOCUMENTS REQUIRED

Line\Rel	Part Number	Rev	Planned Qty	Shipped Qty	Back Order Qty	UOM
1 \ 1	CC4084-V01	1	1.0000	1.0000		EA
						
Manufacturer:Positronic Industries Caribe, Inc.						
HTS #						
8538908040						
PO Line	Customer Part \ Rev					
1-2	D5116-041 \ A					
						
						
Lot Number			Country of Origin		Lot Qty	
02024947-1-1			US		1.0000	
						

DATE CODE 07/15

Shipping Package Information

	Length	Height	Width	UOM	Weight	UOM
1	11.00	5.00	13.00	IN	2.00	LB

Packing Slip

Cage Code: 54YW5

Page: 2 of 2

Certificate of Conformance

WE CERTIFY THAT THE PRODUCT(S) FURNISHED FOR THE PURCHASE ORDER LISTED ABOVE HAS (HAVE) BEEN MANUFACTURED IN ACCORDANCE WITH POSITRONIC INDUSTRIES' ENGINEERING DRAWINGS AND MANUFACTURING PROCEDURES, AS WELL AS TO CUSTOMER SPECIFICATIONS AS LISTED ON THE PURCHASE ORDER. PHYSICAL AND CHEMICAL TEST DATA ARE ON FILE FOR VERIFICATION. PRODUCTS AND PACKAGING CONTAIN NO MERCURY. POSITRONIC INDUSTRIES WARRANTS NO ODS-CLASS I OR CLASS II(S) ARE USED IN THEIR MANUFACTURING PROCESSES; OR IN THE DESIGN, TESTING, ASSEMBLY, HANDLING, TRANSPORTATION, OR MAINTENANCE OF ANY PRODUCT THAT IT PRODUCES. ENGINEERING DATA AND EVIDENCE OF INSPECTION MAY BE SUPPLIED FOR VERIFICATION OF CONFORMANCE TO APPLICABLE MILITARY AND COMMERCIAL REQUIREMENTS.

Date: **FEB 26 2015**

Signed: 

QA Representative

Positronic Industries Caribe, Inc.
101 Carr #591
Ponce, 00728
PR

Phone: 1 (763) 315-5300

EXPORT PACKING LIST

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DART AERO
1270 Aberdeen St
Hawkesbury, ON K6A 1K7
CA

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DART AERO
1270 Aberdeen St
Hawkesbury, ON K6A 1K7
CA

Order #	Line	P.O.	Qty Shipped	Part Number	Description
Case ID: 0028179			Dimensions: 11 x 13 x 5		Case Weight: 2LBS 1Kgs

24947	1	PO26888	1	CC4084-V01	D5116-041		
				Unit Price:	\$65.93	Item Total Value:	\$65.93

#/Cartons: 1

TOTAL: 2.00 Lbs

0.91 Kgs

Total Shipment Value:

65.93

DEPARTMENT OF THE TREASURY
UNITED STATES CUSTOMS SERVICE

NORTH AMERICAN FREE TRADE AGREEMENT
CERTIFICATE OF ORIGIN

19 CFR 181.11, 181.22

Shipment ID: 780269950910

1. EXPORTER NAME AND ADDRESS Positronic Industries Caribe, Inc. 101 Carr #591 Ponce, 00728 PR	2 BLANKET PERIOD (MM/DD/YY) FROM 01/01/15 TO 12/31/15
3. PRODUCER NAME AND ADDRESS Same as Shipper TAX IDENTIFICATION NUMBER:	4. IMPORTER NAME AND ADDRESS DART AERO 1270 Aberdeen St Hawkesbury, ON K6A 1K7 CA TAX IDENTIFICATION NUMBER:

5. DESCRIPTION OF GOODS	6. HS TARRIFF CLASSIFICATION NUMBER	7. PREFERENC E CRITERION	8. PRODUCER	9. NET COST	10. COUNTR Y OF
CC4084-V01 D5116-041	8538908040	B	YES	NO	US

I CERTIFY THAT:

- THE INFORMATION ON THIS DOCUMENT IS TRUE AND ACCURATE AND I ASSUME THE RESPONSIBILITY FOR PROVING SUCH REPRESENTATIONS. I UNDERSTAND THAT I AM LIABLE FOR ANY FALSE STATEMENTS OR MATERIAL OMISSIONS MADE ON OR IN CONNECTION WITH THIS DOCUMENT;
- I AGREE TO MAINTAIN, AND PRESENT UPON REQUEST, DOCUMENTATION NECESSARY TO SUPPORT THIS CERTIFICATE, AND TO INFORM, IN WRITING, ALL PERSONS TO WHOM THE CERTIFICATE WAS GIVEN OF ANY CHANGES THAT COULD AFFECT THE ACCURACY OR VALIDITY OF THIS CERTIFICATE;
- THE GOODS ORIGINATED IN THE TERRITORY OF ONE OR MORE OF THE PARTIES, AND COMPLY WITH THE ORIGIN REQUIREMENTS SPECIFIED FOR THOSE GOODS IN THE NORTH AMERICAN FREE TRADE AGREEMENT, AND UNLESS SPECIFICALLY EXEMPTED IN ARTICLE 411 OR ANNEX 401, THERE HAS BEEN NO FURTHER PRODUCTION OR ANY OTHER OPERATION OUTSIDE THE TERRITORIES OF THE PARTIES; AND
- THIS CERTIFICATE CONSISTS OF PAGES, INCLUDING ALL ATTACHMENTS.

11a. AUTHORIZED SIGNATURE 	11b. COMPANY Positronic Industries Caribe, Inc.		
11c. NAME (PRINT OR TYPE) Rafael Ramirez	11d. TITLE SHIPPER		
11e. DATE(DD/MM/YY) 26/02/15	11f. TELEPHONE NUMBER	(Voice) 787-841-0920	(Facsimile)



Hawkesbury, March 11th, 2015

To: Candido Rodriguez Perez
Quality Manger Positronic

Please accept my apologies for the tardiness of returning this AS9102 FAI for PO# 26888 D5116-041. Last week I was away on vacation and I misplaced it in the list of things to accomplish on Tuesday.

Enclosed you will find that the Form 1 is signed for approval by myself and the completed document has been scanned and returned to you. We here at Dart will be keeping the original's as per our retention period (10 years) requires us.

If you have any comments, questions or concerns please feel free to contact me at any time to the email address below.

Thank you for your cooperation

A handwritten signature in blue ink, appearing to be "Eric Downing", with the date "2015/03/11" written below it.

Eric Downing
Quality Assurance Coordinator
Edowning@dartaero.com
T 1-(613)-632-5200 ext. 223

AS9102 - First Article Inspection
Form 1: Part Number Accountability

[illegible]

44F 042 Revisión Original

DAS
16
9-89

POSITRONIC INDUSTRIES CARIBE, INC.

AS9102 - First Article Inspection

Sheet 1 of 2

Form 2: Product Accountability – Raw Material, Specifications and Special Processes, Functional Testing

1. Part Number D5116-041 (CC4084-V01)	2. Part Name WIRE HARNESS		3. Serial Number N/A		4. FAI Report Number FAI-142
5. Material or Process Name	6. Specification Number	7. Code	8. Special Process Supplier Code	9. Customer Approval Verification (Yes/No/NA)	10. Certificate of Conformance number
1)M39029/92-535, CONTACT SOCKET, 12AWG	5054-192-31-0	N/A	SUPPLIER # 616		LOT # 02748001507
2)M39029/92-533, CONTACT SOCKET, 16AWG	5054-192-32-0	N/A	SUPPLIER # 616		LOT # 02748021507
3)60620-1, PIN CONTACT 20-14AWG	5054-155-25-0	N/A	SUPPLIER # 696		LOT # 02744081506
4)60619-1, SOCKET CONTACT 20-14AWG	5054-155-26-0	N/A	SUPPLIER # 696		LOT # 02744101506
5)36152, NYLON RING TERMINAL, 22-16AWG	5054-90-32-0	N/A	SUPPLIER # 696		LOT # 02744151506
6)32448, KNIFE DISCONNECT SPLICE, 16-14AWG	5054-90-33-0	N/A	SUPPLIER # 696		LOT # 02744031506
7)640903-1, CONNECTOR QC RECEPT 1/-22AWG	5054-358-0-0	N/A	SUPPLIER # 696		LOT # 02744141506
8)1-480318, CONNECTOR	5054-346-5-0	N/A	SUPPLIER # 696		LOT # 02744121506
9)1-480319, CONNECTOR	5054-346-6-0	N/A	SUPPLIER # 696		LOT # 02744131506
10)31890, # 8, RING TERMINAL, # 8	5054-90-34-0	N/A	SUPPLIER # 696		LOT # 02744161506
11)320562, BLUE BUTT SPLICE	5054-90-35-0	N/A	SUPPLIER # 696		LOT # 02744181506
12)320565, RING TERMINAL, # 8, BLUE	5054-90-36-0	N/A	SUPPLIER # 696		LOT # 02744191506
13)320619, RING TERMINAL, # 6, BLUE	5054-90-37-0	N/A	SUPPLIER # 696		LOT # 02744211506
14)ICO RALLY # XPF-1/8", EXPANDABLE SLEEVE	5054-232-15-0	N/A	SUPPLIER # 611		LOT # 02747921507
15)RNF-100, THERMOFIT TUBING, 1/4", BLACK	5054-359-0-0	N/A	SUPPLIER # 611		LOT # 02747941507
11. Functional Test Procedure Number	12. Acceptance report number, if applicable				
13. Comments SUPPLIER # 616 - A. E. PETSCHKE – 235 N. FREEPORT DR W-9, NOGALES AZ. 85621 SUPPLIER # 696 - HEILIND ELECTRONICS – 5300 AVION PARK DRIVE, HIGHLAND HEIGHTS, OH 44143 SUPPLIER # 611 - ALLIED ELECTRONICS - 61 JACK NEWELL BLVD. S, FORTH WORTH, TX 76118					
14. Prepared By 			15. Date 2 - 26 - 2015		

44F 043 Revisión Original

POSITRONIC INDUSTRIES CARIBE, INC.

AS9102 - First Article Inspection

Sheet 2 of 2

Form 2: Product Accountability – Raw Material, Specifications and Special Processes,

Functional Testing

1. Part Number D5116-041 (CC4084-V01)	2. Part Name WIRE HARNESS		3. Serial Number N/A		4. FAI Report Number FAI-142
5. Material or Process Name	6. Specification Number	7. Code	8. Special Process Supplier Code	9. Customer Approval Verification (Yes/No/NA)	10. Certificate of Conformance number
16)M22759/41-14-9, HOOK UP WIRE, WHITE, 14 AWG	5049-340-9-0	N/A	SUPPLIER # 616		LOT # 02744071506
17)M22759/41-20-9, HOOK UP WIRE, 20AWG, WHITE	5049-217-9-0	N/A	SUPPLIER # 658		LOT # 02622921440
18)M22759/32-20-9, HOOK UP WIRE, 20AWG, WHITE	5049-341-9-0	N/A	SUPPLIER # 616		LOT # 02744741507
19)TE # 60617-1, CONTACTS	5054-347-0-0	N/A	SUPPLIER # 601		LOT # 02644211443
20)TE # 60618-1, CONTACTS	5054-347-1-0	N/A	SUPPLIER # 601		LOT # 02644231443
11. Functional Test Procedure Number		12. Acceptance report number, if applicable			
13. Comments SUPPLIER # 616 - A.E. PETSCHÉ – 235 N. FREEPORT DR W-9, NOGALES AZ. 85621 SUPPLIER # 658 - WIRE MASTERS – 1788 NORTHPOINTE ROAD, COLUMBIA TN 38401 SUPPLIER # 601 - TTI – 2601 SYLVANIA CROSS, FT. WORTH TX 76137					
14. Prepared By 			15. Date 2-26-2015		

44F 043 Revisión Original

POSITRONIC INDUSTRIES CARIBE, INC.

Sheet 1 of 3

AS9102 - First Article Inspection

Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

1. Part Number D5116 - 041 (CC4084-V01)				2. Part Name WIRE HARNESS			3. Serial Number N/A	4. FAI Report FAI-142
Characteristic Accountability				Inspection / Test Results			Optional Fields	
5. Char No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designed Tooling	11. Non-Conformance Number	14A. GAGE USED	14B. INSPECTED BY:
1	A-8	Note 1	MATERIAL: N/A	N/A	N/A	N/A	N/A	QC 5184
2	A-8	Note 2	FINISH: NONE	ACCEPTABLE	N/A	N/A	VISUAL	
3	A-8	Note 3	TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED	ACCEPTABLE	N/A	N/A	VISUAL	QC 5184
4	A-8	Note 4	UNITS: INCHES UNLESS OTHERWISE NOTED	ACCEPTABLE	N/A	N/A	VISUAL	QC 5184
5	A-8	Note 5	BREAK SHARK EDGES: N/A	ACCEPTABLE	N/A	N/A	VISUAL	QC 5184
6	A-8	Note 6	IDENTIFICATION: PER QSI 044 6.7	ACCEPTABLE	N/A	N/A	VISUAL	QC 5184
7	A-8	Note 7	WEIGHT: 1.0 LBS.	0.5 LBS.	SCALE	NA	POS 1113	QC 5184
8	A-8	Note 8	PACKAGE TERMINALS/ CONNECTORS IN LABELLED BAGS AS PART OF THE HARNESS ASSEMBLY	ACCEPTABLE	N/A	N/A	N/A	QC 5184
9	A-8	Note 9	TERMINALS ARE TO BE CRIMPED BY THE CUSTOMER DURING HARNESS INSTALLATION	ACCEPTABLE	N/A	N/A	VISUAL	QC 5184

POSITRONIC INDUSTRIES CARIBE, INC.

AS9102 - First Article Inspection

Sheet 2 of 3

Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

10	A-8	Note 10	INSTALL AND SHRINK A 2" LENGTH OF ¼" HEAT-SHRINK TUBING OVER BOTH ENDS OF THE EXPANDABLE SLEEVE TO PREVENT THE EXPANDABLE SLEEVE FROM FRAYING.	ACCEPTABLE	N/A	N/A	VISUAL	QC 5184
11	C-3	Per wiring chart	Wire length 48.00" + 2.00"	48.50" (X5)	METRIC TAPE	N/A	POS 1331	QC 5184
12	C-3	Per wiring chart	Wire length 72.00" + 4.00"	72.50"	METRIC TAPE	N/A	POS 1331	QC 5184
13	C-3	Per wiring chart	Wire length 12.00" + 1.00"	13.00"	METRIC TAPE	N/A	POS 1331	QC 5184
14	C-3	Per wiring chart	Wire length 75.00" + 4.00"	75.50 (X2)	METRIC TAPE	N/A	POS 1331	QC 5184
15	C-3	Per wiring chart	Wire length 30.00" + 2.00"	30.50	METRIC TAPE	N/A	POS 1331	QC 5184
16	C-3	Per wiring chart	Wire length 7.00" + 1.00"	8.00"	METRIC TAPE	N/A	POS 1331	QC 5184
17	C-3	Per wiring chart	Expandable sleeve 44.00" + 2.00"	44.00"	METRIC TAPE	N/A	POS 1331	QC 5184

POSITRONIC INDUSTRIES CARIBE, INC.

AS9102 - First Article Inspection

Sheet 3 of 3

Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

18	C-3	Per wiring chart	Wire/connector supplied with hook	ACCEPTABLE	N/A	N/A	VISUAL	QC 5184
19	C-3	Per wiring chart	Jumper wire between 28 VDC bus and D5095-1 fuse holder	ACCEPTABLE	N/A	N/A	VISUAL	QC 5184
20	C-3	Per wiring chart	To be installed over wires M001C14 and M002A14	ACCEPTABLE	N/A	N/A	VISUAL	QC 5184

The signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

12. Prepared By

Enrique Rodríguez

13. Date

2-26-2015

44F 044 Revisión Original

REFERENCE ONLY

D5116-041 WIRE HARNESS

① ② ③ ④ ⑤ ⑥ ⑦

QTY -041	PART NUMBER	DESCRIPTION	WIRE CODE	GAUGE	TERMINAL 1	TERMINAL 2	LENGTH (IN)	NOTES
X	D5116-041	WIRE HARNESS	N/A	N/A	N/A	N/A	N/A	N/A
1	D5116-1	WIRE M22759/41-14-9	M001A14	14	NONE	M39029/92-535	48	
1	D5116-3	WIRE M22759/41-14-9	M001B14	14	M39029/92-535	60619-1	48	
1	D5116-5	WIRE M22759/41-14-9	M001C14	14	60620-1	32448	48	WIRE/CONNECTOR SUPPLIED WITH HOOK
1	D5116-7	WIRE M22759/41-14-9	M002A14	14	60620-1	32448	48	WIRE/CONNECTOR SUPPLIED WITH HOOK
1	D5116-9	WIRE M22759/41-14-9	M002B14N	14	60619-1	NONE	72	
1	D5116-11	WIRE M22759/41-20-9	M003A20	20	NONE	M39029/92-533	48	
1	D5116-13	WIRE M22759/41-20-9	M003B20	20	M39020/92-533	60619-1	12	
1	D5116-15	WIRE M22759/32-20-9	M003C20	20	60620-1	NONE	75	
1	D5116-17	WIRE M22759/32-20-9	M004A20	20	60620-1	NONE	75	
1	D5116-19	WIRE M22759/41-20-9	M004B20N	20	60619-1	NONE	30	
1	D5116-21	WIRE M22759/41-20-9	NO CODE	20	36152	640903-1	7	JUMPER WIRE BETWEEN 28 VDC BUS AND D5095-1 FUSE HOLDER
1	XPF-1/8	EXPANDABLE SLEEVE	N/A	N/A	N/A	N/A	44	TO BE INSTALLED OVER WIRES M001C14 AND M002A14
2	1-480318	CONNECTOR	N/A	N/A	N/A	N/A	N/A	SEE NOTE 8 AND 9
2	1-480319	CONNECTOR	N/A	N/A	N/A	N/A	N/A	SEE NOTE 8 AND 9
1	31890	RED # 8 RING TERMINAL	N/A	N/A	N/A	N/A	N/A	SEE NOTE 8 AND 9
2	320562	BLUE BUTT SPLICE	N/A	N/A	N/A	N/A	N/A	SEE NOTE 8 AND 9
1	320565	BLUE # 8 RING TERMINAL	N/A	N/A	N/A	N/A	N/A	SEE NOTE 8 AND 9
1	320619	BLUE # 6 RING TERMINAL	N/A	N/A	N/A	N/A	N/A	SEE NOTE 8 AND 9
1	640903-1	1/4" BLADE CONNECTOR	N/A	N/A	N/A	N/A	N/A	SEE NOTE 8 AND 9

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: PER QSI 044 6.7
- 7) WEIGHT: 1.0 lbs
- 8) PACKAGE TERMINALS/CONNECTORS IN LABELLED BAGS AS PART OF THE HARNESS ASSEMBLY
- 9) TERMINALS ARE TO BE CRIMPED BY THE CUSTOMER DURING HARNESS INSTALLATION
- 10) INSTALL AND SHRINK A 2" LENGTH OF 1/4" HEAT-SHRINK TUBING OVER BOTH ENDS OF THE EXPANDABLE SLEEVE TO PREVENT THE EXPANDABLE SLEEVE FROM FRAYING

RELEASED
R 2014-11-06

A NEW ISSUE		ML	14.05.09
REV.	DESCRIPTION	BY	DATE
DESIGN	ML	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	ML	REV. A	
CHECKED	AJS	DRAWING NO.	SHEET 1 OF 1
MFG. APPR.	DD	D5116	SCALE
APPROVED	MP	TITLE	NTS
DE APPR.	D9	WIRE HARNESS	
DATE	14.05.09	COPYRIGHT © 2014 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS UNDERSTANDING THAT IT IS NOT TO BE USED FOR ANY PURPOSES OR COPIED OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

RECEIVED

FEB 02 2015



POSITRONIC INDUSTRIES, INC.

423 N. Campbell Ave. • P.O. BOX 8247

Springfield, MO 65801 USA

Telephone 417-866-2322 • FAX 417-866-4115 • Toll Free 800-641-4054

E-mail: info@connectpositronic.com

www.connectpositronic.com

CUSTOMER SPECIFICATION REVIEW

Customer Name: DART	Date: 2/24/15
Customer Part Number: D5116-041	Revision: A
CC Part Number: CC4084-V01	Revision: NC

Comments: (The comments below depict the differences between your specification and the Positronic products. Any difference with an * is negotiable, i.e. Positronic Industries could possibly supply with an additional lead time.)

The insulation diameter range of TE contact 60619-1 & 60620-1 is .100 - .130 and the insulation of wire M22759/41-20 and M22759/32-20 is quite out of that range. Per IPC-620 this is a defect that insulation crimp tabs do not provide support at least 180° around the insulation.

Change TE contact from 60619-1 to 60617-1 and from 60620-1 to 60618-1 on wires that required 20 awg wire only. The insulation diameter range of suggested contacts p/n is .060 - .100.

The usage of IPC tolerances instead of Note 3) Tolerances: per Dart QSI 018.

Print OK to build to ☐ yes ☐ no ☒ Deviations accepted

Thank you for the opportunity to review your specification. If any of the comments are unacceptable please notify us. If the comments are acceptable please sign below as acceptance to the differences and reply a copy to us.

Customer

Authorized Signature

Date

Deviations accepted L. Owens 2/25/15



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO26888**

Purchase Order Date 12/23/2014

PO Print Date 1/19/2015

Page Number 1 of 2

Order From :

VU-POS001

POSITRONIC INDUSTRIES INC.
423 N CAMPBELL AVE
SPRINGFIELD, MO 65806
USA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

FCA - (Free Carrier)

Ship To Contact

Ship To Phone

Ship Via:

FedEx Overnight collect

Ship Acct:

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	D5116-041P AS PER DWG D5116 REV. A B128049	Wiring Harness	2/27/2015 Yes 2/27/2015	FN	1.00 Each	\$65.93	\$65.93
Line Total:							\$65.93
2	D5116-041P AS PER DWG D5116 REV. A B128050	Wiring Harness	4/24/2015 Yes 4/24/2015	FN	10.00 Each	\$65.93	\$659.30
Line Total:							\$659.30
3	71500-20	AS9102 FAI	2/27/2015 Yes 2/27/2015		1.00 Each	\$750.00	\$750.00

PO Instructions: QUOTE # 52475

Note:

1/19/2015



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO26888**

Purchase Order Date 12/23/2014

PO Print Date 1/19/2015

Page Number 2 of 2

Order From : POSITRONIC INDUSTRIES INC. 423 N CAMPBELL AVE SPRINGFIELD, MO 65806 USA	VU-POS001	Ship To : DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CANADA
---	------------------	--

Contact Name	Buyer	Chantal Lavoie
Vendor Phone	Customer POID	
	Customer Tax #	10127-2607
Ship To Contact	Terms	Net 30
Ship To Phone	Currency	USD
Ship Via:	FOB	FCA - (Free Carrier)
FedEx Overnight collect		
Ship Acct:		

Line Total: \$750.00

4	71500-20	NRE CRIMP TOOLING	2/27/2015	1.00	\$679.26	\$679.26
			Yes	Each		
			2/27/2015			

Line Total: \$679.26

5	71401-45	PROCUREMENT QUALITY CLAUSES	2/27/2015	1.00	\$0.00	\$0.00
			No			
			2/27/2015			

Procurement Quality Clauses
A005 RIGHT OF ENTRY
A008 FIRST ARTICLE INSPECTION (FAI) BY SELLER,
(DOCUMENTATION SENT TO DART AEROSPACE)
A016 PERSONNEL QUALIFICATION
A018 ELECTRICAL EQUIPMENT
A025 CERTIFICATE OF CONFORMANCE
A040 NOTIFICATION OF QUALITY ESCAPE
A041 QUALITY MANAGEMENT SYSTEM
A042 DART NOTIFICATION BY SUPPLIER
A043 RETENTION OF QUALITY DOCUMENTS

Line Total: \$0.00

PO Total: \$2,154.49

PO Instructions: QUOTE # 52475

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 2 Change Date: 1/19/2015

Sales Order: 24947

Cust id: 22558

Sales Order Acknowledgement

Page: 1 of 1

Sold To:

DART AERO
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Contact Phone: 613-632-5200

Ship To:

DART AERO
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

bbellanti@connectpositronic.com

Order Date: 01/15/2015
Ship By: 02/26/2015
Terms: Net 30 Days

PO Number: PO26888
Sales Person: Brandon Bellanti
Ship Via: FedEx Intl Priority

FOB: FOB SHIPPIN

SHIPPING TO CANADA-CANADA CUSTOMS/NAFTA DOCUMENTS REQUIRED

US DOLLARS

Line	Part Number/Description Rev	Order Qty	Unit Price	Ext. Price
1	D5116-041 Our Part: CC4084-V01 Rev: 1	A 11.0000 EA	65.93000/1	725.23

Your PO Line: 1-2

Rel	Date	Quantity
1	2/27/2015	1.0000
2	4/24/2015	10.0000

Line (1) Miscellaneous Charges:

Quantity	Unit Price	Freq	Description	Ext. Price
1.) 1	750.00	(F)	QUALITY TESTING	750.00
2.) 1	679.26	(F)	TOOLING CHARGES	679.26
				<u>1,429.26</u>

Line Total:	725.23
Line Miscellaneous Charges:	1,429.26
Tax Amount:	0.00
Order Miscellaneous Charges:	0.00
Order Total	2,154.49 USD



Positronic | Puerto Rico
101 Road #591
El Tuque Industrial Park
Ponce 00726-2803 Puerto Rico

CABLE QUALITY INSPECTION REPORT

1st Article ☒ Production ☐ Prototype ☐

Customer: DART AEROSPACE

Acceptance: ACCEPT Rejected: REJECT

P+ Part Number: CC4084-V01

Rev. NC

Inspector: [Signature]

Customer Part Number: D5116-041

Rev. A

Date: 2/26/15

Quantity Inspected: 1

Job Number: 024947-1-1

Rework Order: Yes ☐ NO ☒ RMR #

Identification Number for Instruments Used for QC Inspection

POS # 1331 MEASUREMENT TAPE POS # RETENTION TOOL TESTING AREA: POS # CIRRISS AC
POS # CALIPER POS # RULER POS # OTHER POS # HP POS# TESTER

Visual Inspection	1st Article		INSPECTION ORDER		Visual Inspection	1st Article		INSPECTION ORDER			
	A	R	A	R		A	R	A	R		
Package terminals/connectors in labelled bags as part of the harness assembly.	X										
Terminals are to be crimped by the customer during harness installation.	X										
Install a shrink 2" tubing over both ends of the expandable sleeve.	X										
Wire M22759/41-14-9(x2) supplied with hook.	X										
Jumper wire M22759/41-20-9 between 28 VDC BUS and D5095-1 fuse holder.	X										
Expandable sleeve to be installed over wires M001C14 and M002A14	X										
Dimensional Inspection	A	R	A	R	INSTRUMENT USED	Dimensional Inspection	A	R	A	R	INSTRUMENT USED
M001A14 48" + 2"	48 1/2"				MT	M004A20 75" + 4"	75 1/2"				MT
M001B14 48" + 2"	48 1/2"				MT	M004B20N 30" + 2"	30 1/2"				MT
M001C14 48" + 2"	48 1/2"				MT	D5116-21 7" + 1"	8"				MT
M002A14 48" + 2"	48 1/2"				MT	Expandable sleeve 44"	44"				MT
M002B14N 72" + 4"	72 1/2"				MT						
M003A20 48" + 2"	48 1/2"				MT						
M003B20 12" + 1"	13"				MT						
M003C20 75" + 4"	75 1/2"				MT						
Electrical Test Approval	A	R	A	R	INSTRUMENT USED	Comments:					
BUZZLIGHT	X				BL						

Note: Positronic Industries Caribe, Inc. 100% inspects cable assemblies in accordance with the customer requirements and in conjunction with the IPC/WHMA-A-620 standard and/or manufacturer specifications as required.

INSTRUMENTS LEGEND: CA = CALIPER R = RULER MT = MEASUREMENT TAPE RT = RETENTION TOOL P = PIN GAGE C = CIRRISS HP = HEWLETT PACKARD
AC = AC TESTER BL = BUZZ LIGHT ML = MULTIMETER

Job Pick List

Page: 1 of 4
Date: 2/11/2015

JOB:
024947-1-1



ASM:
0



REVISION:
1



PART:

CC4084-V01
CC4084-V01-CRT



COMPONENT ...SUB-ASSEMBLIES/RAW MATERIALS:

Mtl:	Qty Needed	From	Reg Date	Qty. Issued	UOM	Whse	Bin	Lot
10	2.0000 EA	PRFG	2/23/2015					

✓ ① M39029/92-535, CONTACT SOCKET, 12AWG

On Hand:

30.0000 EA Whse: PRCOMP Bin: AC08D Lot: 02748001507 29R

Mtl:	Qty Needed	From	Reg Date	Qty. Issued	UOM	Whse	Bin	Lot
20	2.0000 EA	PRFG	2/23/2015					

✓ ② M39029/92-533, CONTACT SOCKET, 16AWG

On Hand:

30.0000 EA Whse: PRCOMP Bin: AF11D INCOMING Lot: 02748021507 27R

Mtl:	Qty Needed	From	Reg Date	Qty. Issued	UOM	Whse	Bin	Lot
30	4.0000 EA	PRFG	2/23/2015					

✓ ③ 60620-1, PIN CONTACT 20-14AWG

On Hand:

100.0000 EA Whse: PRCOMP Bin: AF11E Lot: 02744081506 47R

Mtl:	Qty Needed	From	Reg Date	Qty. Issued	UOM	Whse	Bin	Lot
40	4.0000 EA	PRFG	2/23/2015					

✓ ④ 60619-1, SOCKET CONTACT 20-14AWG

On Hand:

100.0000 EA Whse: PRCOMP Bin: AF11E Lot: 02744101506 47R

Mtl:	Qty Needed	From	Reg Date	Qty. Issued	UOM	Whse	Bin	Lot
50	1.0000 EA	PRFG	2/23/2015					

✓ ⑤ 36152, NYLON RING TERMINAL, 22-16AWG

On Hand:

20.0000 EA Whse: PRCOMP Bin: AF11E Lot: 02744151506 17R

Due 2/26
First Article

Job Pick List

Page: 2 of 4
Date: 2/11/2015

Mtl: 60 5054-90-33-0 2.0000 EA PRFG 2/23/2015



32448, KNIFE DISCONNECT SPLICE, 16-14AWG

On Hand:

30.0000 EA Whse: PRCOMP Bin: AC06D Lot: 02744031506 27R

Mtl: 70 5054-358-0-0 2.0000 EA PRFG 2/23/2015



640903-1, CONNECTOR QC RECEPT 1/-22AWG

On Hand:

30.0000 EA Whse: PRCOMP Bin: AF11E Lot: 02744141506 27R

Mtl: 80 5054-346-5-0 2.0000 EA PRFG 2/23/2015



1-480318, CONNECTOR

On Hand:

30.0000 EA Whse: PRCOMP Bin: af11e Lot: 02744121506 27R

Mtl: 90 5054-346-6-0 2.0000 EA PRFG 2/23/2015



1-480319, CONNECTOR

On Hand:

30.0000 EA Whse: PRCOMP Bin: af11e Lot: 02744131506 27R

Mtl: 100 5054-90-34-0 1.0000 EA PRFG 2/23/2015



31890, # 8, RING TERMINAL, # 8

On Hand:

20.0000 EA Whse: PRCOMP Bin: AF11E Lot: 02744161506 17R

Mtl: 110 5054-90-35-0 2.0000 EA PRFG 2/23/2015



320562, BLUE BUTT SPLICE

On Hand:

50.0000 EA Whse: PRCOMP Bin: AF11E Lot: 02744181506 27R

Job Pick List

Page: 3 of 4
Date: 2/11/2015

Mtl: 120 5054-90-36-0 1.0000 EA PRFG 2/23/2015



320565, RING TERMINAL, # 8, BLUE

On Hand:

20.0000 EA Whse: PRCOMP Bin: AF11E Lot: 02744191506 17R

Mtl: 130 5054-90-37-0 1.0000 EA PRFG 2/23/2015



320619, RING TERMINAL, # 6, BLUE

On Hand:

20.0000 EA Whse: PRCOMP Bin: AF11E Lot: 02744211506 11R

Mtl: 140 5054-232-15-0 130.0000 CM PRFG 2/23/2015



ICO RALLY # XPF-1/8", EXPANDABLE SLEEVE

On Hand:

3,048.0000 CM Whse: PRFG Bin: INCOMING Lot: 02747921507 1307R

Mtl: 150 5054-359-0-0 15.0000 CM PRFG 2/23/2015



RNF-100, THERMOFIT TUBING, 1/4", BLACK

On Hand:

609.6000 CM Whse: PRFG Bin: INCOMING Lot: 02747941507 157R

Mtl: 160 5049-340-9-0 684.0000 CM PRFG 2/23/2015



M22759/41-14-9, HOOK UP WIRE, WHITE, 14AWG

On Hand:

12,192.0000 CM Whse: PRCOMP Bin: AC10A Lot: 02744071506 6847R

Mtl: 170 5049-217-9-0 257.0000 CM PRCOMP 2/23/2015



M22759/41-20-9, HOOK UP WIRE, 20AWG, WHITE

On Hand:

14,223.0000 CM Whse: PRCOMP Bin: AB20C Lot: 02622921440 2577R

Job Pick List

Page: 4 of 4

Date: 2/11/2015

Mtl: 180

5049-341-9-0

386.0000 CM

PRFG 2/23/2015



M22759/32-20-9, HOOK UP WIRE, 20AWG, WHITE

On Hand:

10,058.4000 CM

Whse: PRCOMP

Bin: AF11E

Lot: 02744741507 386712

(16) 5054-341-0-0 qty 3 J c. 02644211443-2712
(20) 5054-341-1-0 qty 3 J c. 02644231443-2712

CERTIFICATE OF COMPLIANCE / TRACKING

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POSITRONIC IND. CARIBE II
101 ROAD 591
EL TUQUE IND. PARK

PONCE,
PUERTO RICO

00728-2803



Salesperson	Frances Summers
Ship Date	2/05/2015
Shipped By	Antos Leon
Invoice On	** TODAY ** # 61012

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POSITRONIC IND. CARIBE IN
P O BOX 8247

SPRINGFIELD, MO
UNITED STATES OF AMERICA 65801

SPECIAL INSTRUCTIONS

This is to certify that the articles in the quantities shipped are in conformance with the applicable requirements, specifications, and/or drawings listed on your purchase order.

CUST CODE	CUSTOMER PURCHASE ORDER NUMBER	BUYER NAME	A.E.P. SALES ORDER NUMBER	TOTAL CONTAINERS	TOTAL WEIGHT	CARRIER		
PRMO	911055	Cristine Colon	Z/N34-12954	3/3/0	3	UPS RED COL		
LINE NO.	QUANTITY ORDERED	DESCRIPTION OR PART NUMBER	MANUFACTURER / DOM LOT NUMBER	CONTAINER	WEIGHT	TRACKING NUMBER	QUANTITY BY CONTAINER	TOTAL SHIPPED
3	30	M39029/92-535 5054-192-31-0 M39029/92-535 CONNECTOR: CONTACTS	TRI-STAR ELE 12/12/2011 TRI-11-436684 DOE: 0/00/0000 ROHS: Non-Compliant COO: US Cage: 55104	33856334-X1796124 - - Container 1	1	1Z8746X80167030807	30	30
B/O	0	HS code: 8538.90.7040 Export Classification: US-EAR99 License Decision: NLR License Decision Re-Export: REQUIRED License Expiration: License Number: These products are subject to export controls of the US Department of Commerce. Please consult CFR Title 15 Export Administration Regulations.	/ - / NLR / REQUIRED /					
4	700	M39029/22-192 A5054-192-12-0 M39029/22-192 CONNECTOR: CONTACTS	DEUTSCH BCD 4/21/2014 6600050254 DOE: 0/00/0000 ROHS: Non-Compliant COO: US Cage: 11139	53001571-X6624320 - -				

This shipment is being sent subject to our standard terms and conditions, a copy of which is available at www.aepetsche.com or upon request.

Quality Designee

Continued

AEP-7

Shipping Point - A. E. PETSCHER CO., INC.

235 N FREEPORT DR W-9

NOGALES, AZ. 85621

(817) 461-9473

REMIT PAYMENT TO:

A.E. Petsche Co. Inc.
P.O. Box 910195
Dallas Texas 75391-0195
Telephone (817) 461-9473
Fax (817) 277-6553

A.E. Petsche Co.

2112 West Division
Arlington, Texas 76012

No License Required (NLR)
ECCN: EAR99
AEP EIN: 751238083

ORIGINAL INVOICE

INV NO: 61014-Z-12954
DATE: 2/05/2015
TERMS: NET 30 STD
FOB Shipping Point
SO DATE: 2/04/2015

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POSITRONIC IND. CARIBE II
101 ROAD 591
EL TUQUE IND. PARK

PONCE
PUERTO RICO

00728-2803

SPECIAL INSTRUCTIONS

S
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POSITRONIC IND. CARIBE IN
P O BOX 8247

SPRINGFIELD
UNITED STATES OF AMERICA
65801

MO

**SHIPPING DOCUMENT ONLY
DO NOT PAY**

CUSTOMER		CUSTOMER PURCHASE ORDER		ORDER NUMBER	SHIPPER	SHIP DATE
PRMO		911055		N34-12954	UPS RED COL	2/05/2015
LINE NO.	QUANTITY ORDERED	DESCRIPTION OF PART NUMBER			QUANTITY SHIPPED	EXTENDED PRICE
B/O U/M		These commodities, technology or software were exported from the United States in accordance with the Export Administration regulations. Diversion contrary to U.S. law prohibited.			UNIT PRICE	
003 B/O U/M	30 Each ①	M39029/92-535 5054-192-31-0 STOCK CODE M39029/92-535 <i>Lot 02748001507</i>			30 1.76000 UNIT PRICE	52.80
B/O U/M		CONNECTOR: CONTACTS Metal connector contacts H.S. Tariff# 8538.9 Schedule B# 8538.90.7040 Origin - US			UNIT PRICE	
B/O U/M		HS code: 8538.90.7040 Export Classification: US- EAR99 License Decision: NLR License Decision Re-Export: REQUIRED License Expiration: /			UNIT PRICE	
License Number:		These products are subject to export controls of the US Department of Commerce. Please consult CFR Title 15 Export Administration Regulations			UNIT PRICE	
004 B/O U/M	700 Each	M39029/22-192 A5054-192-12-0 STOCK CODE M39029/22-192 <i>Lot 02748011507</i>			700 36000 UNIT PRICE	252.00
B/O U/M		CONNECTOR: CONTACTS Metal connector contacts H.S. Tariff# 8538.9 Schedule B# 8538.90.7040 Origin - US			UNIT PRICE	

This order has been sent subject to our standard terms and conditions, a copy of which is located at www.aepetsche.com or upon request.

Incorporated with limited liability in the state of Texas, USA, No. 227880

TOTAL AMOUNT IN
Continued to Next Page



Certification of Conformance
2201 Rosecrans Avenue, El Segundo CA 90245 USA
Phone: (310) 536-0444 Fax: (310) 536-9322
www.tri-starelectronics.com

Page: 1 of 1

Date: 5-Dec-2011

Customer Name: A.E. PETSCH CO., INC.
2112 WEST DIVISION
Arlington, TX 76012, US

Delivery Number: 405710

Pick Slip Number: 332598

PO Number: X17-96124

Pick Batch: 15866375

Date Released: 05-DEC-11

Order Number: 1399037

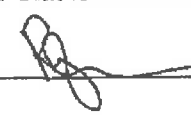
TRI-STAR ELECTRONICS GOLD CLAUSE:

Due to the volatility and recent fluctuation in precious metals, Tri-Star Electronics International, reserves the right to adjust pricing based on the change in the price of fabricated gold and rhodium throughout the duration of this quotation or purchase order. The Englehard Fabricated Price will be utilized as the index for measuring the current price of gold/rhodium.

Line	Item	Unit	Quantity	Lot Number	Rev
2.2	316-1212-634-L CONTACT, SOCKET, SIZE 12, RELAY CONNECTOR Cust Item #: M39029/92-535	EA	505	TRI-11-437886 8413000	E
2.2	316-1212-634-L CONTACT, SOCKET, SIZE 12, RELAY CONNECTOR Cust Item #: M39029/92-535	EA	1,995	TRI-11-436684 8399000	E

Total Quantity 2,500

It is hereby certified that all articles produced for the above mentioned purchase order are mercury free and the quantities specified are manufactured in full accordance with the specifications and reference drawings applicable to this order. Electro mechanical, physical, and/or chemical test reports pertaining to this order are on file and are available for examination by the appropriate customer representative or regulatory agency upon notification of said request to Tri-Star Electronics.

Inspected By : 



Date Code: 1149

Date : DEC 05 2011



580

Inspection Sheet

Type of Inspection:	☐ In-Process	☐ Final	☒ Other <i>Incoming</i>						
Part Number	Order Total Qty.	Reference (Lot #/Job #/ RMR #)	Inspection Date:						
5054-192-31-0	30 ea	Lot # 02748001507 PD.# 911055	2-11-15						
SPECIAL NOTES:			INSTRUMENT USED						
Characteristics	RESULTS								CALIPER - POS #
	INSPECTION #1	AQL	POS TYPE	Acc./Rej.	Inspection #2	AQL	POS TYPE	Acc./Rej.	
Contact Socket	Visual	ACCEPT	ACC						MICROMETER - POS #
M392029/92-535	Visual	OK	ACC						GO/NO-GO - POS #
Color: Green-DANGER Green	Visual	OK	ACC						CHECK TOOL - POS #
Pin Size 12 Wire Size 12	Visual	OK	ACC						TORQUE - POS #
PD. Compliance	Visual	OK	ACC						PIN GAGE - POS #
Dim - (A) 141 max	157	1.0	1.0	ACC					BUZZ LIGHT - POS #
Dim (B) 151 max	149	ACCEPT	CR-823	ACC					CIRRISS - POS #
									RULER - POS #
									TAPE MEASUREMENT POS #
									INSTRUMENTS LEGEND
Inspected By:									CA = CALIPER MV = MICRO VU M = MICROMETER GN = GO/NO-GO - CT = CHECK TOOL T = TORQUE P = PIN GAGE BL = BUZZ LIGHT C = CIRRISS R = RULER MT = MEASUREMENT TAPE

CERTIFICATE OF COMPLIANCE / PACKING LIST

POSITRONIC IND. CARIBE II
101 ROAD 591
EL TUQUE IND. PARK

PONCE ,
PUERTO RICO

00728-2803

A. E. Petsche Co.

WWW.AEPETSCH.COM

Salesperson - Frances Summers
Ship Date - 2/05/2015
Shipped By - Santos Leon
Invoice On - ** TODAY ** # 61014

SPECIAL INSTRUCTIONS

POSITRONIC IND. CARIBE IN
P O BOX 8247

SPRINGFIELD , MO
UNITED STATES OF AMERICA 65801

This is to certify that the articles in the quantities shipped are in conformance with the applicable requirements, specifications, and/or drawings listed on your purchase order.

CUST CODE	CUSTOMER PURCHASE ORDER NUMBER		BUYER NAME	A. E. P. SALES ORDER NUMBER	TOTAL CONTAINERS	TOTAL WEIGHT	CARRIER		
PRMO	911055		Cristine Colon	Z/N34-12954	3/3/0	3	UPS RED COL		
LINE NO.	QUANTITY ORDERED	DESCRIPTION OR PART NUMBER		MANUFACTURER / DOM LOT NUMBER	CONTAINER	WEIGHT	TRACKING NUMBER	QUANTITY BY CONTAINER	TOTAL SHIPPED
B/O	0	HS code: 8538.90.7040 Export Classification: US-EAR99 License Decision: NLR License Decision Re-Export: REQUIRED License Expiration: License Number: subject to export controls of the US Department of Commerce. Title 15 Export Administration Regulations.		/ - / NLR / REQUIRED / /	Container 2	1	1Z8746X80167030807	700	700
5	30	M39029/92-533 5054-192-32-0 M39029/92-533 CONNECTOR: CONTACTS		TRI-STAR ELE 9/29/2014 TRI-14-526376 DOE: 0/00/0000 COO: US Cage: 55104	50911314-X1706899				
B/O	0	HS code: 8538.90.7040 Export Classification: US-EAR99 License Decision: NLR License Decision Re-Export: REQUIRED License Expiration: License Number:		/ - / NLR / REQUIRED / /	Container 3	1	1Z8746X80167030807	30	30

This shipment is being sent subject to our standard terms and conditions, a copy of which is available at www.aepetsche.com or upon request.

Quality Designee

Continued



Packing Slip

Manufacturing Site:
2201 Rosecrans Avenue, El Segundo CA, 90245, USA
Phone: (310) 536-0444 Fax: (310) 536-9322
www.tri-starelectronics.com

Page : 1 of 2

Date : 1-Oct-2014

Ship To: A.E. PETSCHER CO., INC.
235 N FREEPORT DR W-9
Nogales, AZ 85621
United States

Bill To: A.E. PETSCHER CO., INC.
Attention Accounts Payable/AE Petsche P.O.
Box 6513
Englewood, CO 80155
United States

Delivery Number: 468920
Order Number: 1442800
PO Number: X17-06899
Pick Batch: 33713376

FOB: EL SEGUNDO **Carrier:** FEDEX-Parcel-Ground
Country of Origin: USA **Contents:** Electrical Components

Waybill: 596917382866
Code: 8538.90.4000

Customer Num: 1589
Weight: 6
Cartons: 1

Line	Item	UOM	Shipped Date	Ordered Qty	Shipped Qty	Lot Number	Rev
1.2	316-1616-634-L CONTACT, SOCKET, SZ 16, RELAY CONNECTOR PO Line:001 Cust Item#: M39029/92-533 ???????????????? Supercedes: None FGOH	EA	01-OCT-14	1,705	1,705	TRI-14-526376	F
1.2	316-1616-634-L CONTACT, SOCKET, SZ 16, RELAY CONNECTOR PO Line:001 Cust Item#: M39029/92-533 ???????????????? Supercedes: None FGOH	EA	01-OCT-14	3,295	3,295	TRI-14-526378	F





Certification of Conformance

Manufacturing Site:
2201 Rosecrans Avenue, El Segundo CA 90245 USA
Phone: (310) 536-0444 Fax: (310) 536-9322
www.CarlisleIT.com

Page: 1 of 2

Date: 1-Oct-2014

Customer Name: A.E. PETSCH CO., INC.
235 N FREEPORT DR W-9
Nogales, AZ 85621, US

Delivery Number: 468920

Pick Slip Number: 687399

PO Number: X17-06899

Pick Batch: 33713376

Date Released: 01-OCT-14

Order Number: 1442800

Line	Item	Unit	Quantity	Lot Number	Rev
1.2	316-1616-634-L CONTACT, SOCKET, SZ 16, RELAY CONNECTOR Cust Item #: M39029/92-533 Supercedes: None REV: A Customer's PO line # 001	EA	3,295	TRI-14-526378 <i>4553000</i>	F
1.2	316-1616-634-L CONTACT, SOCKET, SZ 16, RELAY CONNECTOR Cust Item #: M39029/92-533 Supercedes: None REV: A Customer's PO-line # 001	EA	1,705	TRI-14-526376 <i>4536000</i>	F

Total Quantity 5,000





Certification of Conformance

Manufacturing Site:

2201 Rosecrans Avenue, El Segundo CA 90245 USA

Phone: (310) 536-0444 Fax: (310) 536-9322

www.CarlisleIT.com

Page: 2 of 2

Date: 1-Oct-2014

Customer Name: A.E. PETSCH CO., INC.
235 N FREEPORT DR W-9
Nogales, AZ 85621, US

Delivery Number: 468920

Pick Slip Number: 687399

PO Number: X17-06899

Pick Batch: 33713376

Date Released: 01-OCT-14

Order Number: 1442800

It is hereby certified that all articles produced for the above mentioned purchase order are mercury free and the quantities specified are manufactured in full accordance with the specifications and reference drawings applicable to this order. Electro mechanical, physical, and/or chemical test reports pertaining to this order are on file and are available for examination by the appropriate customer representative or regulatory agency upon notification of said request to Tri-Star Electronics.

Inspected By :



Date Code:

1440

Date :

OCT 01 2014



Inspection Sheet

Type of Inspection:	☐ In-Process	☐ Final	☒ Other <i>Thcoming</i>					
Part Number	Order Total Qty.	Reference (Lot #/Job #/ RMR #)	Inspection Date:					
5054-192-32-0	30 ea	Lot # 02748021507 PD # 911055	2-11-15					
SPECIAL NOTES:			INSTRUMENT USED					
Characteristics	RESULTS							
	INSPECTION #1	AQL	POS TYPE	Acc./Rej.	Inspection #2	AQL	POS TYPE	Acc./Rej.
Contact Socket	Visual	OK	ACU					
M39029/92-533	Visual	OK	ACU					
Color: Green + (Orange + Red)	Visual	OK	ACU					
Dia Size 20 Wire Size 20	Visual	OK	ACU					
PD. Compliance	Visual	OK	ACU					
Dia 113	110	1.5 CA 352	ACU					
Dia 103	103	1.5 CA 422	ACU					
Inspected By:								

- CALIPER - POS #
- MICRO VU - POS #
- MICROMETER - POS #
- GO/NO-GO - POS #
- CHECK TOOL - POS #
- TORQUE - POS #
- PIN GAGE - POS #
- BUZZ LIGHT - POS #
- CIRRISS - POS #
- RULER - POS #
- TAPE MEASUREMENT POS #
- INSTRUMENTS LEGEND**
- CA = CALIPER
- MV = MICRO VU
- M = MICROMETER
- GN = GO/NO-GO -
- CT = CHECK TOOL
- T = TORQUE
- P = PIN GAGE
- BL = BUZZ LIGHT
- C = CIRRISS
- R = RULER
- MT = MEASUREMENT TAPE

HEILIND

Performance.Trust.Innovation.

PACKING LIST

5300 Avion Park Drive
Highland Heights, OH 44143

(866) 434-5463

Purchase Order No.

911056

* OH-480-714 *
* PKG. ID. # *
* ZGR383- 2 *

SOLD TO

POSITRONIC CARIBE INC
PO BOX 8247
ATTN: ACCOUNTS PAYABLE
SPRINGFIELD MO 65801-8247

SHIP TO

POSITRONIC CARIBE INC
101 ROAD # 591
EL TUQUE INDUSTRIAL PARK
PONCE PR 00728-2803

Ph:

TODAY'S DATE		DATE ORDERED		TERMS	SHIP VIA			OUR ORDER NO.	
02/04/15		02/04/15		NET 30	UPS FRTCOL RED 1 DAY			ZGR383- 2	
TODAY'S TIME				FOB / INCO	BUYER			NO GOODS SHALL BE RETURNED WITHOUT AUTHORIZATION	
5:57 P				SP	CRISTINE COLON				
LN	MFG	PART NUMBER			RoHS	U/M	QUANTITY	BACK ORDER	CUSTOMER DUE DATE
001	AMP	60620-1-201 CMNL PIN 20-14 TPBR L/P CUST # 5054-155-25-001 02744081506			Y	E	100	0	02/04/15
002	AMP	60619-1 CMNL SOK PTPBR L/P CUST # 5054-155-26-002 02744101506			Y	E	100	0	02/04/15
003	AMP	1-480303-0 03P CMNL PLUG HSG F/H NATL CUST # 5054-346-0-0 02744111506			Y	EA	5	0	02/04/15
004	AMP	1-480318-0 02P CMNL PLUG HSG F/H NATL CUST # 5054-346-5-0 02744121506			Y	EA	30	0	02/04/15
005	AMP	1-480319-0 02P CMNL CAP HSG NATL CUST # 5054-346-6-0 02744131506			Y	E	30	0	02/04/15
006	AMP	640903-1 RECEPT, PIDG FASTON 22-18 250 CUST # 5054-358-0-0 02744141506			Y	EA	30	0	02/04/15
007	AMP	36152 PIDG R 22-16 COMM 22-18 MIL 6 CUST # 5054-90-32-0 02744151506			Y	E	20	0	02/04/15
008	AMP	31890 PIDG R 22-16 COMM 22-18 MIL 8 CUST # 5054-90-34-0 02744161506			Y	EA	20	0	02/04/15
009	AMP	320562 SPlice BUTT PIDG 16-14 CUST # 5054-90-35-0 02744181506			Y	EA	50	0	02/04/15
010	AMP	320565 TERMINAL, PIDG R 16-14 8 CUST # 5054-90-36-0 02744191506			Y	EA	20	0	02/04/15
011	AMP	320619 TERMINAL, PIDG R 16-14 6 CUST # 5054-90-37-0 02744211506			Y	EA	20	0	02/04/15

Y In The RoHS Column Are Certified RoHS Compliant Per The Manufacturer

- Page 1 -

CERTIFICATION OF COMPLIANCE: We hereby certify that all parts supplied under this purchase order have been processed in accordance with all applicable instructions and specifications. All claims for shortages or defects must be made within 15 days after receipt of material. No returns accepted without return material authorization number and lot traceability. Our liability is limited to replacing the material or refunding the invoice value of the material sold. IMPORTANT-MAINTAIN TRACEABILITY-DO NOT MIX LOTS



con't next page

DICK DURLAND CORPORATE QUALITY MANAGER

PACKING LIST

HEILIND

Performance. Trust. Innovation.

3100 Summit Avenue
Suite 200
Plano, TX 75074
(866) 434-5463

* TX-750-273 *
* PKG. ID. # *
* ZGR383- 1 *

Purchase Order No. 911056

SOLD TO

POSITRONIC CARIBE INC
PO BOX 8247
ATTN: ACCOUNTS PAYABLE
SPRINGFIELD MO 65801-8247

SHIP TO

POSITRONIC CARIBE, INC.
101 ROAD # 591
EL TUQUE INDUSTRIAL PARK
PONCE PR 00728-2803

Ph:

PH:				OUR ORDER NO.				
TODAYS DATE	DATE ORDERED	TERMS	SHIP VIA					
02/04/15	02/04/15	NET 30	UPS FRTCOL RED 1 DAY	ZGR383- 1				
TODAYS TIME	FOB / INCO	BUYER	NO GOODS SHALL BE RETURNED WITHOUT AUTHORIZATION					
6:08 P	SP	CRISTINE COLON						
LN	MFG	PART NUMBER	RoHS	U/M	QUANTITY ORDERED	QUANTITY SHIPPED	BACK ORDER	CUSTOMER DUE DATE
014	AMP	32448 KNIFE DISCONNECT, PIDG 16-14 CUST # 5054-90-33-0 Lot. 02744031506	Y	E	30	30	0	02/04/15
Y In The RoHS Column Are Certified RoHS Compliant Per The Manufacturer								

- Page 1 -

CERTIFICATION OF COMPLIANCE We hereby certify that all parts supplied under this purchase order have been processed in accordance with all applicable instructions and specifications. All claims for shortages or defects must be made within 15 days after receipt of material. No returns accepted without return material authorization number and lot traceability. Our liability is limited to replacing the material or refunding the invoice value of the material sold. IMPORTANT-MAINTAIN TRACEABILITY-DO NOT MIX LOTS



Dick Durland

DICK DURLAND - CORPORATE QUALITY MANAGER



51 Jack Newell Blvd. S
WORTH, TX 76118
Free: (800) 433-5700
www.alliedelec.com

POSITRONIC CARIBE INC
101 RD 591
EL TUQUE INDUSTRIAL PARK
PONCE PR 00728

POSITRONIC CARIBE INC
101 RD 591
EL TUQUE INDUSTRIAL PARK
PONCE PR 00728

10036635	Roger Quesada @alliedelec.com	1 of 1
Order #	Your PO #	
2001914084	911057	
Ordered By		Order Date
CRISTINE COLON		02/05/2015
Ship Via		Ship Date
UPS Worldwide Expedited (TZ08)		02/06/2015
Customer PO Number		Delivery #
911057		8003801878

acking List

LINE #	PRODUCT DESCRIPTION	PRODUCT ATTRIBUTES	QUANTITIES
ALLIED: 000010	MFR PART #: XPF 1/8" BLACK <i>5054-232-15-0</i> MFR NAME: ICO RALLY <i>Lot. 02747921507</i> MATERIAL #: 70000547 PROD DESC: EXPANDABLE SLEEVING, POLYESTER, MONO-FILAMENT	UNIT OF MEASURE: CX COUNTRY OF ORIGIN: US HTS / CLASS CODE: 5806322000 ROHS COMPLIANT: RoHS Compliant	ORDERED: 1 SHIPPED: 1 B/O: 0
ALLIED: 000020	MFR PART #: RNF-100-1/4-BK-STK <i>5054-359-0-0</i> MFR NAME: TYCO ELECTRONICS RAYCHEM MATERIAL # 70101026 <i>Lot. 02747941507</i> PROD DESC: Tubing, Heat Shrink; 1/4 in. ID; 2:1 Shrink; 48 in. length; Black	UNIT OF MEASURE: EA COUNTRY OF ORIGIN: US HTS / CLASS CODE: 3926909995 ROHS COMPLIANT: RoHS Compliant	ORDERED: 5 SHIPPED: 5 B/O: 0
ALLIED: 000030	MFR PART #: P18-6R-C <i>5054-77-0-0</i> MFR NAME: PANDUIT MATERIAL # 70044364 <i>Lot. 02747951507</i> PROD DESC: TERMINAL, RING NON-INSUL.	UNIT OF MEASURE: PK COUNTRY OF ORIGIN: US HTS / CLASS CODE: 8536904000 ROHS COMPLIANT: RoHS Compliant	ORDERED: 1 SHIPPED: 1 B/O: 0

Allied Electronics Inc. customers intending to export any of the goods supplied are responsible for ensuring full compliance with all applicable export regulations and for obtaining any licenses that may be required.

CERTIFICATE OF COMPLIANCE

Seller hereby certifies that the Products furnished have been manufactured in accordance with and will conform to applicable manufacturer's specifications and that any value-added work performed by Seller on any such Products has been done in accordance with applicable Customer's specifications relating to such work; provided however, that Seller's liability with respect to any Product not meeting any such specifications is limited as set forth in SELLER'S LIMITED WARRANTY AND LIMIT OF LIABILITIES hereon.

Kenneth Bradley Kenneth Bradley, VP Supply Chain

Your order is accepted subject to our Terms and Conditions which are set forth in the Allied catalog and website.

CERTIFICATE OF COMPLIANCE / PACKING LIST

P
T
O

POSITRONIC IND. CARIBE II
101 ROAD 591
EL TUQUE IND. PARK

PONCE,
PUERTO RICO

00728-2803



WWW.AEPETSCH.CO

Salesperson: Frances Summers
Ship Date: 2/04/2015
Shipped By: Chris Pettit
Invoice On: ** TODAY ** # 906790

S
O
L
D
T
O

POSITRONIC IND. CARIBE IN
P O BOX 8247

SPRINGFIELD, MO
UNITED STATES OF AMERICA 65801

SPECIAL INSTRUCTIONS

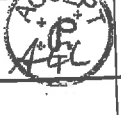
This is to certify that the articles in the quantities shipped are in conformance with the applicable requirements, specifications, and/or drawings listed on your purchase order.

CUST CODE	CUSTOMER PURCHASE ORDER NUMBER		BUYER NAME	A E P SALES ORDER NUMBER	TOTAL CONTAINERS	TOTAL WEIGHT	CARRIER		
PRMO	911055		Cristine Colon	Y/N34-12954	1/1/0	8	UPS RED COL		
LINE NO	QUANTITY ORDERED	DESCRIPTION OR PART NUMBER		MANUFACTURER / DOM LOT NUMBER	CONTAINER	WEIGHT	TRACKING NUMBER	QUANTITY BY CONTAINER	TOTAL SHIPPED
1 (10)	400	M22759/41-14-9 5049-340-9-0 RZ75941 1927		RSCC AEROSPA 5/00/2014 ECO020449-2 DOE: 0/00/0000 ROHS: Compliant	48539092-C1804593, - -				
B/O	0	WIRE: INSULATED ELECTRIC CONDUCTOR		COO: US Cage: 61123	Container 1	8	1ZV927270148390835	400	400
		HS code: 8544.49.3080 Export Classification: US-EAR99 License Decision: NLR License Decision Re-Export: REQUIRED License Expiration: License Number:		/ - / NLR / REQUIRED /					
These products are subject to export controls of the US Department of Commerce. Please consult CFR Title 15 Export Administration Regulations.									
These commodities, technology or software were exported in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.									
21									

This shipment is being sent subject to our standard terms and conditions, a copy of which is available at www.aepetsche.com or upon request.

Quality Designee

Inspection Sheet

Type of Inspection:	☐ In-Process ☐ Final	☒ Other <i>Incoming</i>	Order Total Qty.	Reference (Lot #/Job #/ RMR #)	Inspection Date:			
Part Number								
5049-340-9-0		12192ea	lot # 03744071506	PO # 911055	2-6-15			
SPECIAL NOTES:					INSTRUMENT USED			
First Piece Inspection (Incoming)								
RESULTS								
Characteristics	INSPECTION #1	AQL	POS TYPE	Acc./ Rej.	INSPECTION #2	AQL	POS TYPE	Acc./ Rej.
Hook Up Wire	Visual							
MIL-M22759/41-14	Visual	DK		ALL				
SWG -14	Visual	DK		ALL				
Stranding 19/27	Visual	DK		ALL				
Color : White	Visual							
P.D. Compliance	Visual							
Inspected By:								
								
2-6-15								

INSTRUMENTS LEGEND
 CA = CALIPER
 MV = MICRO VU
 M = MICROMETER
 GN = GO/NO-GO -
 CT = CHECK TOOL
 T = TORQUE
 P = PIN GAGE
 BL = BUZZ LIGHT
 C = CIRIS
 R = RULER
 MT = MEASUREMENT TAPE



1788 Northpointe Road
Columbia, TN 38401

(800) 635-5342
(615) 791-0281
Fax: (615) 791-6182

Packing Slip

Order #	00535663	Page	1
Ticket #	00646549	Date	09/30/2014
Qust #	5050	Slaman	Z
Weight		Pieces	

AS9100 & ISO 9001 Certified

Bill To: POSITRONIC INDUSTRIES, INC.
423 N. CAMPBELL AVE
SPRINGFIELD MO 65806 US-USA

Ship To: POSITRONIC CARIBE INC
101 ROAD # 591
EL TUQUE INDUSTRIAL PARK
PONCE PR 00728-0920 PUERTO RICO

Shipping
Instructions

CI UPS ACCT#X251X3
+/-0% ALL MATERIAL MUST BE ROHS
Fedex Economy 2512-7041-4

Material cannot be returned without first obtaining an R.M.A. number.

Ship Via		F.O.B.		Terms		Customer PO Number	
UPS BC		SP		NET 30		910192	
Line#	Qty Ordered UOM	Item Number / Description			Site	Qty Shipped	Qty Back Ord
1	100 FT	WM22759/41-20-0 M22759/41-20-0 CPN: 5049-217-0-0 Reel: 02264975 100 Mfg Info: NEXANS 57759 11/12 MC/TR			TN	100	
3	1,200 FT	WM22759/41-20-9 M22759/41-20-9 CPN: 5049-217-9-0 Reel: 02265013 1,200 Mfg Info: TYCO 0208572392 4/14 MC/TR			TN	1,200	
4	500 FT	WMEX0.250BK FR 1/4" BLACK/WHITE TRACER CPN: 5054-348-0-0 Reel: 02265016 500 Mfg Info: TECHFLEX 21790V 8/14 MC/TR			TN	500	
5	300 EA	WMTSHML9 M83519/2-9 CPN: 5054-85-7-0 Reel: 02265025 100 Mfg Info: SUMITOMO W01128356001 4/14 Reel: 02265023 100 Mfg Info: SUMITOMO W01128356001 4/14 Reel: 02265024 100			TN	300	

CERTIFICATE OF COMPLIANCE - This is to certify that all items of merchandise supplied are tested and meet the applicable requirements, specifications and/or drawings listed on your purchase order. Liability for any non-conformance, however, would be limited to the value of the material supplied.

STOCK



Part Number



5049-217-9-0 M22759/41-20-9, HOOK UP WIRE, 2C

Lot Number



02622921440

Quantity: 36,576.0000 CM
Supplier: 764 WIRE MASTERS INC.

PO Num/Line/Rel: 910,192/3/1

Job/Asm

Whse



PRCOMP

Bin



INCOMI



17



Tijuana Operations Plant
Av. Produccion No. 20, Parque Ind Int Tijuana
Tijuana, B.C. Mexico CP. 22424
Tel: +52 (664) 647-4500 Fax: +52 (664) 647-4550

Wiremasters Inc
1788 Northpointe Rd
Columbia TN 38401

Certificate of Conformance	
Page: 1	
Date/Fecha	04/12/2014
Purchase order item	00232677/5
Delivery item	6000177621/1
Order item	3034945501/5
Customer Number / Numero del Cliente	222617
Customer Specification / Rev. Especificaciones del Cliente	AS22759/41/4-2000

Except for any exceptions, reservations, or exemptions, listed on this document, the listed supplies conform to the applicable TE Connectivity Specification. Representative inspection and/or test data is on file and available for review.

3/28/14

{033} QA audit to applicable specifications
Special C of C, Code R, Special Lot & Date Code
Include batch number on C of C.
Code P for Test Data

Base Spec: SAE AS22759, Rev. B

Our material number	Batch#	Mfg Date	Quantity
Our material description	Lote	Fecha De Mfg	Tamaño Lote
Numero de Parte del Cliente			
218448-001	0208572392	04/2014	169,615 FT
22759/41-20-9			
M22759/41-20-9			
WM22759/41-20-9			

364189

R

17



Tijuana Operations Plant

Av. Produccion N^o. 20, Parque Ind. Int. Tijuana

Tijuana, B.C. Mexico CP. 22424

Tel: +52 (664) 647-4500 Fax: +52 (664) 647-4550

Wiremasters Inc.
1788 Northpointe Rd
Columbia TN 38401

Certificate of Conformance

Page: 2

Date/Fecha: 04/12/2014
Purchase order item: 00232677/5
Delivery Item: 6000177621/1
Order Item: 3034945501/5
Customer Number / Numero del Cliente: 222617
Customer Specification / Rev. Especificaciones del Cliente: AS22759/41/4-2000

Lorenzo Mendez
Quality Assurance Representative
Tijuana Operations



Tijuana Operations Plant
 Av. Produccion No. 20, Parque Ind Int Tijuana
 Tijuana, B.C. Mexico CP. 22424
 Tel: +52 (664) 647-4500 Fax: +52 (664) 647-4550

Wiremasters Inc
 1788 Northpointe Rd
 Columbia TN 38401

Test Report	
Repeat printout	Page: 1 / 2
Date:	04/12/2014
Purchase order item	00232677 5
Delivery item	6000177621 1
Order item	3034945501 5
Customer number	222617
Customer Specification / Rev.	AS22759/41/4-2000

Our Material Description Your Material Reference	Batch#	Date of Mfg/ Inspection	Shipment Qty
218448-001 22759/41-20-9 M22759/41-20-9 Your Reference:	0208572392	04/03/2014	169,615,000 FT

Base Spec: SAE AS22759, Rev. B

Test Report - 0208572392

Test Name	Lower Limit	Target Value	Upper Limit	Test Results	Unit of Measure
Specification: 55A & AS22759				Pass	
Conductor Material: N.C.				Pass	
Conductor Diameter:	0.0370		0.0390	0.0372	in
Cond. Stranding: 20 Awg 19/32 Awg				Pass	
SEOD Strand Diameter:		0.0080		0.0080	in
Conductor Quality				Pass	
Conductor DC Resistance:			9.7700	9.5300	Ohm/k
Conductor Elongation 10% Min.	10.0			23.4	%
Core Wall Thickness (Min Reading)	0.0030			0.0035	in
Core Wall Thickness (Max Reading)	0.0030			0.0040	in
Concentricity:	70			88	%
Core Elongation	125			200	%
Core Tensile Strength	5000			9108	psi
Color				Pass	
Diameter:	0.0580		0.0600	0.0590	in
PJ Wall (Min. Reading)	0.0040			0.0060	in
PJ Wall (Max. Reading)	0.0040			0.0065	in
OA Wall (Min. Reading)	0.0090			0.0095	in
OA Wall (Max. Reading)	0.0090			0.0100	in
OA Concentricity:	70			95	%
OA Elongation:	75			100	%
OA Tensile Strength Median:	5000			6669	psi
ID: M22759/41-20 SU473				Pass	
ID Durability: 125 Cycles Min.				Pass	
500 Grams Weight.					
Insulation Flaws: 8 kV (Peak) Impulse				Pass	



Tijuana Operations Plant
Av. Produccion No. 20, Parque Ind Int Tijuana
Tijuana, B.C. Mexico CP. 22424
Tel: +52 (664) 647-4500 Fax: +52 (664) 647-4550

Wiremasters Inc
1788 Northpointe Rd
Columbia TN 38401

Test Report

Repeat printout Page: 2 / 2
Date
04/12/2014
Purchase order Item
00232677 5
Delivery Item
6000177621 1
Order Item
3034945501 5
Customer number
222617
Customer Specification / Rev.
AS22769/4/1/4-2000

Test Report - 0208572392

Test Name	Lower Limit	Target Value	Upper Limit	Test Results	Unit of Measure
or 5.7 kV (rms) Spark @ 3 kHz					
Insulation Flaws Core: 6.0 kV (Peak) Imp.				Pass	
or 1.5 kV (rms) Spark Test @ 60 Hz					
Insulation Flaws Core: (Continued)				Pass	
or 4.2 kV (rms) Spark Test @ 3.0 kHz					
Removeability of Insulation				Pass	
Weight:			4.700	4.700	lb/kft
* Crosslink Proof Test: 7 Hours @ 300°C				Pass	
CPT Mandrel: 0.5"				Pass	
CPT Weight: 1.5 lbs.				Pass	
* Coldbend: 4 Hours @ -65°C				Pass	
CB Mandrel: 1"				Pass	
CB Weight: 4 lbs.				Pass	
Thermal Shock: 200°C / -55°C				Pass	
Thermal Shock (End 1 Measurement)			0.060	0.004	in
Thermal Shock (End 2 Measurement)			0.060	0.003	in
Shrinkage: 6 Hours @ 230°C			0.125	0.006	in
Insulation Resistance:	5000			150000	MOhm-k
Flammability 60° 3 Seconds 3" Max.				Pass	
Flammability Afterburn:			3	0	s
Flammability Length of Burn:			3.00	0.96	in
Wicking:			2.25	0.00	in
* Wrap Back: 2 hrs @ 313°C No Cracking				Pass	
Workmanship: First Class and Uniform				Pass	
* Wet Dielectric Test 2.5 KV for 5 Min.				Pass	

Note: This test report may include results not required in the above specification.

Lorenzo Mendez
Quality Assurance Representative
Tijuana Operations

CERTIFICATE OF COMPLIANCE / PACKING LIST

CARIBE II

IND. PARK

PONCE,
PUERTO RICO

00728-2803

A. E. Petsche Co.

WWW.AEPETSCHE.COM

Salesperson: Frances Summers
Ship Date: 2/04/2015
Shipped By: Kevin Dixon
Invoice On: ** TODAY ** # 271429

S
O
L
D
T
O

POSITRONIC IND. CARIBE IN
P O BOX 8247

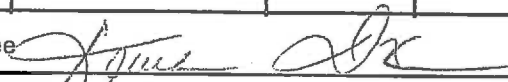
SPRINGFIELD, MO
UNITED STATES OF AMERICA 65801

SPECIAL INSTRUCTIONS

This is to certify that the articles in the quantities shipped are in conformance with the applicable requirements, specifications, and/or drawings listed on your purchase order.

CUST CODE		CUSTOMER PURCHASE ORDER NUMBER		BUYER NAME	A E P SALES ORDER NUMBER	TOTAL CONTAINERS	TOTAL WEIGHT	CARRIER		
PRMO		911055		Cristine Colon	A/N34-12954	1/1/0	3	UPS RED COL		
LINE NO	QUANTITY ORDERED	DESCRIPTION OR PART NUMBER			MANUFACTURER / DOM LOT NUMBER	CONTAINER	WEIGHT	TRACKING NUMBER	QUANTITY BY CONTAINER	TOTAL SHIPPED
2	300	M22759/32-20-9 5049-341-9-0 RZ75932 1932			NEXANS AEORS 5/19/2013 59421 DOE: 0/00/0000 ROHS: Compliant	42006599-A4861351 - -				
		WIRE: INSULATED ELECTRIC CONDUCTOR			000: US Cage: 12515	Container 1	3	1Z7612100250524781	330	330
B/O	0	HS code: 8544.49.3080 Export Classification: US-EAR99 License Decision: NLR License Decision Re-Export: REQUIRED License Expiration: License Number:			/ - / NLR / REQUIRED / /					
These products are subject to export controls of the US Department of Commerce. Please consult CFR Title 15 Export Administration Regulations.										
These commodities, technology or software were exported in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.										

This shipment is being sent subject to our standard terms and conditions, a copy of which is available at www.aepetsche.com or upon request.

Quality Designee 

Shipping Point - A. E. PETSCHER CO., INC. 2112 W. DIVISION

ARLINGTON, TX 76012

(817) 461-9473

AEP-7

Inspection Sheet

Type of Inspection: ☐ In-Process ☐ Final ☒ Other <i>Incoming</i>		Part Number: <i>5049-341-9-0</i>		Order Total Qty.: <i>10,058.40</i>		Reference (Lot #/Job #/ RMR #): Lot # <i>02744741507</i> PO # <i>911055</i>		Inspection Date: <i>2-9-15</i>	
SPECIAL NOTES:								INSTRUMENT USED	
Characteristics	RESULTS								INSTRUMENTS LEGEND
	INSPECTION #1	AQL	POS TYPE	Acc./ Rej.	INSPECTION #2	AQL	POS TYPE	Acc./ Rej.	
<i>Hook Up Wire</i>	<i>Visual</i>								CALIPER - POS #
<i>P/N: M22759/32-20-9</i>	<i>Visual</i>	<i>OK</i>		<i>ACC</i>					MICRO VU - POS #
<i>20 AWG</i>	<i>Visual</i>	<i>OK</i>		<i>ACC</i>					MICROMETER - POS #
<i>Color: White</i>	<i>Visual</i>	<i>OK</i>		<i>ACC</i>					GO/NO-GO - POS #
<i>PO Compliance</i>	<i>Visual</i>								CHECK TOOL - POS #
									TORQUE - POS #
									PIN GAGE - POS #
									BUZZ LIGHT - POS #
									CIRRISS - POS #
									RULER - POS #
									TAPE MEASUREMENT POS #
Inspected By:  <i>2-9-15</i>									

CA = CALIPER
 MV = MICRO VU
 M = MICROMETER
 GN = GO/NO-GO -
 CT = CHECK TOOL
 T = TORQUE
 P = PIN GAGE
 BL = BUZZ LIGHT
 C = CIRRISS
 R = RULER
 MT = MEASUREMENT TAPE

REMIT PAYMENT TO:

A.E. Petsche Co. Inc.
P.O. Box 910195
Dallas Texas 75391-0195
Telephone (817) 461-9473
Fax (817) 277-6553

A.E. Petsche Co.

2112 West Division
Arlington, Texas 76012

ORIGINAL INVOICE

INV NO: 271429-A-12954
DATE: 2/04/2015
TERMS: NET 30 STD
FOB Shipping Point
SO DATE: 2/04/2015

No License Required (NLR)

ECCN: EAR99

AEP EIN: 751238083

SPECIAL INSTRUCTIONS

SHIP TO

POSITRONIC IND. CARIBE II
101 ROAD 591
EL TUQUE IND. PARK

PONCE
PUERTO RICO

00728-2803

SOLD TO

POSITRONIC IND. CARIBE IN
P O BOX 8247

SPRINGFIELD
UNITED STATES OF AMERICA
65801

MO

SHIPPING DOCUMENT ONLY
DO NOT PAY

BUYER NAME

Cristine Colon 1-KG / 3-LB

CUSTOMER	CUSTOMER PURCHASE ORDER	ORDER NUMBER	SHIPPER	SHIP DATE
PRMO	911055	N34-12954	UPS RED COL	2/04/2015

LINE NO.	QUANTITY ORDERED	DESCRIPTION OR PART NUMBER	QUANTITY SHIPPED	EXTENDED PRICE
B/O U/M		These commodities, technology or software were exported from the United States in accordance with the Export Administration regulations. Diversion contrary to U.S. law prohibited.		
002 B/O U/M	300 Feet	M22759/32-20-9 5049-341-9-0 STOCK CODE RZ75932 1932 02744741507	330	26.40
B/O U/M	91 Meter	WIRE: INSULATED ELECTRIC CONDUCTOR Of copper not fitted with connectors H.S. Tariff# 8544.49 Schedule B# 8544.49.3080 Origin - US	101	26.248
B/O U/M	Export Classification: US- EAR99 License Decision: NLR License Decision Re-Export: REQUIRED License Expiration:			
	License Number:			
	These products are subject to export controls of the US Department of Commerce. Please consult CFR Title 15 Export Administration Regulations.			
	These commodities, technology or software were exported in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.			
B/O U/M				

This order has been sent subject to our standard terms and conditions, a copy of which is located at www.aepetsche.com or upon request.

TOTAL AMOUNT IN
US Dollar

26.40

Incorporated with limited liability in the state of Texas, USA, No. 227880

SHIPPED FROM: A.E. PETSCH CO. DOCK-A
ARLINGTON, TX

2112 WEST DIVISION

76012-3605

271429 12954 A PRMO 911055

20150204

Sales Order: 1645903 Item: 10 Prod Code: 11047454

Stock Order#: Item: Prod Code: 11047454 Master Lot#: 59421

Customer: A.E. PETSCH - ARLINGTON, TX

Cage Code: 12515

Base Spec: AS22759 REV B

Qty Tested: 180,000 Feet

Spec Callout: M22759/32-20-9

Date of Mfg: 5/19/2013

Cust PO#: A48-61351

Test Lot#: FG 158176

Cust Part#: M22759/32-20-9 RZ75932 1932

Acceptance Test Data

Alt Cust Part#

Test	QCP#	Requirement	#Samples	Results	Init & Date
Conductor Material	011	TCC small diameter	1	Conforms 6000076645000113	VST 5/19/2013
Conductor Construction	011	20-19x32	1	20-19x32	VST 5/19/2013
Conductor Elongation	042	10% min	1	Conforms 18 per cert 6000076645000113	EEM 5/13/2013
Conductor Stranding	121	19x32	1	19x32	VST 5/19/2013
Conductor Diameter	113	0.0365 - 0.0394	2	.037 .037	VST 5/19/2013
Conductor Resistance	097	9.88 ohms/1000' max @ 20°C	2	9.12 ohms 9.12 ohms	SBF 5/14/2013
Conductor Solderability	211	95% min coverage 5 specimens	5	Conforms	JVS 4/30/2013
Conductor and Insulation Splices	303	There shall not be more than one strand-splice in any two by lengths of a stranded concentric-lay conductor	1	Conforms	VST 5/19/2013
Insulation Material	027	Crosslinked, extruded, modified ETFE	1	Conforms 6000119968000113	VST 5/19/2013
Insulation Construction	027	Single wall Crosslinked, extruded, modified ETFE	1	Conforms	VST 5/19/2013
Finished Wire Construction	303	AS22759/32-20	1	Conforms	VST 5/19/2013
Insulation Stripping	071	All insulation shall be readily removable by conventional wire stripping devices without damage	1	Conforms	VST 5/19/2013
Insulation Color Marking	024	The color of the insulation shall be in accordance with MIL-STD-104, Class 1. The color of stripes, bands, or symbols shall be in accordance with MIL-STD-104, Class 1	1	Conforms	VST 5/19/2013
Identification Durability	279	125 cycles (250 strokes) (min), 500 grams weight	2	125 125	THW 5/17/2013
Diameter	112	0.050 ± 0.002	2	.050 .050	VST 5/19/2013
Weight	277	4.3 lbs/1000 ft max	2	4.2 lbs 4.2 lbs	SBF 5/14/2013
Workmanship	285	All details of workmanship shall be in accordance with high grade aircraft wire manufacturing practice. The insulation shall be free of cracks, splices, irregularities, and embedded foreign material	1	Conforms	VST 5/19/2013
Insulation Concentricity and Wall Thickness	124	70% min concentricity 0.005 inch min wall thickness	2	86% 86% 86% .007 .007 .007	VST 5/19/2013
Continuous Lengths	303	Per SFP	1	Conforms	VST 5/19/2013
Insulation Resistance	091	5,000 megohms-1000' min	2	860054000 megohms 860236000 megohms	SBF 5/14/2013
Finished Wire Insulation Flaw	303	100% tested	1	Conforms	VST 5/19/2013
Insulation Shrinkage	078	0.125 inch max @ 200°C ± 3°C	2	0/0 .003/.007	BEB 4/30/2013
Insulation Thermal Shock	136	Oven temperature, 150°C ± 3°C max change in measurement, 0.060 inch There shall be no flaring	2	.030/.025 .019/.014 no flaring of Insulation	THW 5/17/2013
Insulation Crosslink Proof and Accelerated Aging	134	Mineral diameter 0.002 inches (50%) Test load 0.500 pounds (50%) 7 hours @ 300°C ± 3°C Detectable level 2.500 volts (rms), 60 Hz Splice shall show no cracks or splices when subjected to	2	Conforms	BEB 4/30/2013
Insulation Low Temperature Resistance	142	Mineral diameter 0.002 inches (50%) Test load 1.00 pounds (50%) 4 hours @ -55°C ± 3°C Detectable test 2.500 volts (rms), 60 Hz Splice shall show no cracks or splices when subjected to	2	Conforms	CEP 5/1/2013

SHIP TO

POSITRONIC IND. CARIBE II
101 ROAD 591
EL TUQUE IND. PARK

PONCE ,
PUERTO RICO

00728-2803

CERTIFICATE OF COMPLIANCE / PACKING LIST

A. E. Petsche Co.

WWW.AEPETSCH.CO

Salesperson - Frances Summers
Ship Date - 2/04/2015
Shipped By - Kevin Dixon
Invoice On - ** TODAY ** # 271429

SOLD TO

POSITRONIC IND. CARIBE IN
P O BOX 8247

SPRINGFIELD , MO
UNITED STATES OF AMERICA 65801

SPECIAL INSTRUCTIONS

This is to certify that the articles in the quantities shipped are in conformance with the applicable requirements, specifications, and/or drawings listed on your purchase order.

CUST CODE	CUSTOMER PURCHASE ORDER NUMBER		BUYER NAME	A E P SALES ORDER NUMBER	TOTAL CONTAINERS	TOTAL WEIGHT	CARRIER		
PRMO	911055		Cristine Colon	A/N34-12954	1/1/0	3	UPS RED COL		
LINE NO	QUANTITY ORDERED	DESCRIPTION OR PART NUMBER	MANUFACTURER / DOM LOT NUMBER	CONTAINER	WEIGHT	TRACKING NUMBER	QUANTITY BY CONTAINER	TOTAL SHIPPED	
2	300	M22759/32-20-9 5049-341-9-0 RZ75932 1932	NEXANS ABORS 5/19/2013 59421 DOE: 0/00/0000 ROHS: Compliant	42006599-A4861351					
		WIRE: INSULATED ELECTRIC CONDUCTOR	COO: US Cage: 12515	Container 1	3	1Z7612100250524781	330		
B/O	0	HS code: 8544.49.3080 Export Classification: US-EAR99 License Decision: NLR License Decision Re-Export: REQUIRED License Expiration: License Number:	/ - / NLR / REQUIRED / /					330	
These products are subject to export controls of the US Department of Commerce. Please consult CFR Title 15 Export Administration Regulations.									
These commodities, technology or software were exported in accordance with the Export Administration Regulations. Diversion contray to U.S. law is prohibited.									
									

This shipment is being sent subject to our standard terms and conditions, a copy of which is available at www.aepetsche.com or upon request.

Quality Designee

Master Lot#: 59421

Cage Code: 12515

Qty Tested: 180,000 Feet

Date of Mfg: 5/19/2013

Test Lot#: FG 158176

Acceptance Test Data
Alt Cust Part#

SO: Item:

Date: 5/19/2013

Date: 5/20/2013

STOCK



Part Number



5054-347-1-0

TE # 60618-1, CONTACTS

Lot Number



02644231443

Quantity:

200.0000 EA

Supplier:

02319

TTI

PO Num/Line/Rel: 910,345/12/1

Job/Asm

Whse

Bin



PRFG

INCOMI

151
20

PACKING LIST



ORDER PL#	SHIP DATE	PAGE
2781464-01	10/21/14	01 of 02
CUSTOMER P.O. NUMBER		
910345		

TTI, INC.
2601 SYLVANIA CROSS
FT. WORTH TX 76137
UNITED STATES

S POSITRONIC INDUSTRIES CARIBE
H EL TUQUE INDUSTRIAL PARK
I 101 ROAD #591
P PONCE 00728-2804
T PUERTO RICO
O

SALES REP	SHIP VIA	CATCHBOX	CUSTOMER ACCT#
FL7902	UBLU INT C (C)	N	PRM006
ORDER DATE	BUYER		QA INSPECTOR
10/21/14	CRISTINE COLON		JAREDE

THANK YOU FOR YOUR ORDER

LN NO	PART NUMBER EXPORT INFORMATION CUSTOMER REFERENCE/REVISION	PART DESCRIPTION / MFG QPL # MANUFACTURE DATA	DATE/LOT CODE	QUANTITY SHIPPED
01	3/M 3341-1L Commodity Code: 7318.15.8080 OTHER SCREWS <6MM 5054-282-0-0 Lot: 02644081443	JACK SKT KIT D-SUB *Pb free/*RoHS YES/EXEMPT *Per Producer documentation TOTAL VALUE 1,045.71	TOTAL	810
02	APH 97-79-513-4 Commodity Code: 8538.90.8080 OTR ELECTRICAL PARTS 5054-303-0-0 Lot: 02644091443	BUSHING HS3420-4 *Pb free/*RoHS COMPLIANT *Per Producer documentation TOTAL VALUE 459.00	TOTAL 1429 64766800	850 850
03	APH 97-79-513-8 Commodity Code: 8538.90.8080 OTR ELECTRICAL PARTS 5054-303-2-0 Lot: 02644111443	*Pb free/*RoHS COMPLIANT *Per Producer documentation TOTAL VALUE 148.50	TOTAL 1336 63750300	275 275
04	PDT PS16-M Commodity Code: 8536.90.4000 OTHER, TERMINALS A5054-170-6-0 Lot: 02644131443	PRLL-SPL 20-16 M-E/SR *Pb free/*RoHS COMPLIANT *Per Producer documentation TOTAL VALUE 96.30	TOTAL	900
05	ACC 17E-1727-2 Commodity Code: 8538.90.8080 OTR ELECTRICAL PARTS 5054-319-0-0 Lot: 02644151443	DSUB CONN BCKSHLD *Pb free/*RoHS COMPLIANT *Per Producer documentation TOTAL VALUE 896.80	TOTAL	200
06	ACC L17DM537458 Commodity Code: 8538.90.3000 PCA'S, OTR 5054-326-0-0 Lot: 02644171443	D-SUB CONTACT *Pb free/*RoHS COMPLIANT *Per Producer documentation TOTAL VALUE 799.45	TOTAL	590

INSTRUCTIONS: THANK YOU, MARIANA

SEE REVERSE SIDE FOR IMPORTANT INSTRUCTIONS

S POSITRONIC INDUSTRIES CARIBE
H EL TUQUE INDUSTRIAL PARK
I 101 ROAD #591
P PONCE 00728-2804
T PUERTO RICO
Q

777161 10/1/01

SALES REP	SHIP VIA	CATCHBOX	CUSTOMER ACCT #
FL7902	UBLU INT C (C)	N	PRM006
ORDER DATE	BUYER		QA INSPECTOR
10/21/14	CRISTINE COLON		JAREDE

LN NO	PART NUMBER EXPORT INFORMATION CUSTOMER REFERENCE/REVISION	PART DESCRIPTION / MFG QPL # MANUFACTURE DATA	DATE/LOT CODE	QUANTITY SHIPPED
10	TYC 320560 8536.90.4000 OTHER, TERMINALS A5054-90-21-0 201-02644191443	RING-TRM 16-14 [808] [NYL] BLU *Pb free/*RoHS COMPLIANT *Per Producer documentation TOTAL VALUE 74.00	TOTAL	500
11	TYC 60617-1 8536.90.4000 OTHER, TERMINALS 5054-347-0-0 201-02644211443	*Pb free/*RoHS COMPLIANT *Per Producer documentation TOTAL VALUE 8.60	TOTAL	200
12	TYC 60618-1 8538.90.8040 METAL CONTACTS 5054-347-1-0 201-02644231443	*Pb free/*RoHS COMPLIANT *Per Producer documentation TOTAL VALUE 9.00	TOTAL	200

3,537,36

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Mexico (only) 001-500-225-5884
Puerto Rico 1-800-225-5884
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Padua, Italy
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Barcelona, Spain
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Stockholm, Sweden
Bair, Switzerland
Istanbul, Turkey
Essex, United Kingdom

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Shanghai
Shenzhen
Singapore
Taiwan
Thailand

CERTIFICATION OF COMPLIANCE - Seller hereby certifies that the products furnished on this shipment were manufactured by the referenced manufacturers in accordance with and conforms to the applicable manufacturers and military specifications, including MIL-STD-202 and IPC/ELA J-STD-002. Any value added work performed is limited as set forth in the **DISCLAIMER OF WARRANTIES AND LIMITATION OF REMEDIES** below hereof. Seller is an authorized distributor of the products furnished on this shipment and hereby certifies that the products are new, unused, and were purchased from the original manufacturer or through the manufacturer's authorized distribution. The original manufacturer warrants and certifies that the products it produces meet its specifications. Certifications to these effects are on file with the seller or are available from the manufacturer.

QPL CERTIFICATE - Seller certifies that the articles furnished in the quantities indicated, and against the referenced purchase order were produced by the named manufacturer, qualified under the Referenced Test Number, and QPL (or interim approval) number shown in the corresponding column on this document. The manufacturer's Certificate to this effect is on file with Seller or will be requested from the manufacturer.

MERCURY CERTIFICATE - Seller certifies that the components supplied for your order were manufactured without Mercury compounds and do not contain any Mercury. Data supporting this statement is on file with the Seller or available from the manufacturer.

TTI is registered to ISO9001:2008 globally, AS9100 in the US, and EN9120 & EN9100 in Europe.

CLAIMS: BUYER is deemed to have accepted the Products unless notice of rejection is given within a reasonable time, which is agreed to be within ten (10) days after receipt. **CLAIMS OF LATE DELIVERY** are void unless made prior to receipt of Products, and receipt of Products shall constitute a waiver of any claim of late delivery. No return will be accepted without prior "Return Material Authorization #". (R.M.A. #). Material must be returned as directed by the location issuing the R.M.A. # and be in its original packaging. Returns of products packaged in electrostatic packaging will not be accepted if electrostatic packaging has been opened.

QA INSPECTOR OR DESIGNEE is authorized by **DIRECTOR, TOTAL QUALITY** to certify conformance to the customer or military requirement referenced on this document.

ACCEPTANCE AND CANCELLATION OF ORDERS.

Each order for goods is subject to acceptance in writing by a duly authorized agent of seller; any written acknowledgement of receipt of an order shall not, in and of itself, constitute such acceptance. Orders accepted by Seller may be cancelled by Buyer upon written consent of Seller. In the event of cancellation or other withdrawal of an order for any reason and without limiting any other remedy which Seller may have as a result of such cancellation or other withdrawal, reasonable cancellation or restocking charges, which shall include all expenses than incurred and commitments made by Seller, shall be paid by Buyer to Seller. Special orders for items not normally stocked are non-cancelable and non-refundable.

DISCLAIMER OF WARRANTIES AND LIMITATION OF REMEDIES.

Seller disclaims any warranty respecting the merchantability of the products sold to Buyer or their fitness for any particular purpose or use. Seller agrees to transfer to Buyer whatever transferable warranties Seller receives from the manufacturer of products sold to Buyer. Value-added work performed by Seller will conform to applicable Buyer's specifications relating to such work.

THE WARRANTIES STATED HEREIN ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WHETHER STATUTORY, EXPRESS OR IMPLIED.

Seller's liability arising out of any sale of goods to Buyer is expressly limited to either (1) Refund of the purchase price paid by Buyer for such goods (without interest), or (2) Repair and/or replacement of such goods, at Seller's election, and such remedies shall be exclusive and in lieu of all others. **IN NO EVENT SHALL SELLER BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE, INCLUDING BUT NOT LIMITED TO, PERSONAL INJURY OR PROPERTY DAMAGE.** Buyer's recovery from Seller for any claim shall not exceed the purchase price paid by Buyer for the goods, irrespective of the nature of the claim, whether in warrant, contract or otherwise. Any action resulting from any breach on the part of Seller as to the goods delivered hereunder must be commenced within one (1) year after the receipt of goods by Buyer.

BUYER'S TERMS AND CONDITIONS.

Seller desires to provide its customers with prompt and efficient service. Accordingly goods furnished and services rendered by Seller are sold only on the terms and conditions stated herein. Notwithstanding any terms and conditions on Buyer's order, the information and conditions on the Credit Application are controlling over Buyer and Seller. Any conflicting statements or terms listed on the Buyer purchase orders, invoice, confirmations or other Buyer generated documents ("Buyer Documents") whether heretofore or hereafter submitted are negated by submission of the Credit Application and the issuance of credit by Seller, and all different or additional terms and conditions contained in any Buyer Documents are hereby objected to by Seller. Seller's performance of any contract is expressly made conditional on Buyer's agreement to Seller's Terms and Conditions of Sale, unless otherwise specifically agreed in writing by Seller. In the absence of such agreement, commencement of performance and/or delivery shall be for Buyer's convenience only and shall not be deemed or construed to be acceptance of Buyer's terms and conditions, or any of them. If a contract is not earlier formed by mutual agreement in writing, acceptance by Buyer of any goods or services shall be deemed acceptance by Buyer of the terms and conditions stated herein.

BUYER agrees to comply with all applicable U.S. export control laws and regulations, specifically including, but not limited to, the requirements of the Arms Export Control Act, 22 U.S.C. 2751-2794, including the International Traffic in Arms Regulations (ITAR), 22 C.F.R. 120 et seq.; the Export Administration Act, 50 U.S.C. app. 2401-2420, including the Export Administration Regulations, 15 C.F.R. 730-774, including the requirement for obtaining any export license or agreement, if applicable; and, compliance with Office of Foreign Assets Control (OFAC) economic and trade sanctions against targeted foreign countries and regimes, terrorists, international narcotics traffickers, those engaged in activities related to the proliferation of weapons of mass destruction, and other threats to the national security of the United States as set forth in Appendix A to 31 C.F.R. Chapter V and on OFAC's web site at <http://www.ustras.gov/offices/enforcement/ofac>. Without limiting the foregoing, BUYER further agrees that it will not transfer any export controlled item, data, or services, to include transfer to foreign persons employed by or associated with, or under contract to BUYER, without the authority of an export license, agreement, or applicable exemption or exception. BUYER shall immediately notify SELLER if BUYER is, or becomes, listed in any Denied Parties List or if BUYER's export privileges are otherwise denied, suspended or revoked in whole or in part by any U.S. Government entity or agency. If BUYER is engaged in the business of exporting defense articles or furnishing defense services, BUYER represents that it is registered with the Directorate of Defense Trade Controls, as required by the ITAR, and it maintains an effective export/import compliance program in accordance with the ITAR. **COMPLIANCE WITH EXECUTIVE ORDER 11246:** TTI fully incorporates by reference, and is bound by and subject to, the provisions set forth in 41 C.F.R. 60-1.4(a). **YOU ARE HEREBY NOTIFIED** that acceptance of this contract constitutes (1) your agreement to be bound by the requirements, regulations, and provisions contained in 41 C.F.R. 60-1.4(a), to the extent required by law, and (2) your consent to provide any required certification of same to TTI, at TTI's request.

Limitation of Liability per Shipment

BUYER agrees that SELLER shall in no event be liable for any loss, damage, expense or delay to the goods for any reason except to the extent caused by its negligence or willful misconduct. BUYER has the option of paying special compensation to increase the liability for the shipment in case of any loss, damage, expense or delay, but such options can be exercised only by specific written agreement made with SELLER prior to shipment, which agreement shall indicate the limit of liability and the additional compensation for the added liability to be assumed.

THANK YOU FOR YOUR ORDER AND YOUR CONFIDENCE IN US. We want to provide you the best service available. If you have any questions or problems, please have your buyer call your TTI sales/customer service representative to assist you.

Kevin L. Sink

Kevin L. Sink
Vice President, Total Quality